A. CARR'S,

ILLUSTRATED CATALOGUE

1874.

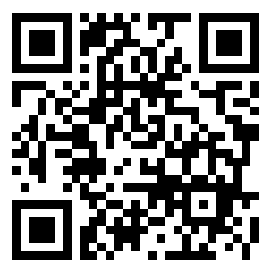
43 CORTLANDT ST.

New-York.

This is a reproduction of a library book that was digitized by Google as part of an ongoing effort to preserve the information in books and make it universally accessible.

Google™ books

https://books.google.com



Digitized by Google

Digitized by Google

Digitized by Google

671
C23

Digitized by Google

Digitized by Google

Digitized by Google

LIBRARY
THE PA. STATE

ILLUSTRATED CATALOGUE

OF

BRASS WORK & SUPPLIES

FOR

PLUMBERS, ENGINE BUILDERS, STEAM AND GAS FITTERS.

SELDEN'S

DIRECT ACTION STEAM PUMP.

CARR'S POSITIVE CIRCULATING

URPIGHT RADIATOR.

IRON PIPE, BRASS, MALLEABLE & GRAY IRON FITTINGS
FOR STEAM, WATER AND GAS,

MANUFACTURED BY

A. CARR,

43 CORTLANDT STREET,

NEW YORK.

Digitized by Google

LIBRARY
THE PA. STATE
COLLEGE

Entered according to Act of Congress, in the year 1878, by A. CARR, in the Office of the Librarian of Congress, at Washington, D. C.

D. H. TUTTLE,
DESIGNER AND ENGRAVER,
5 Beekman Street,
New York.

J. K. LEES,
FINE BOOK & JOB PRINTER,
210 Fulton Street,
New York.

Digitized by Google

SELDEN

Direct Action Steam Pump.

In bringing the "Selden Pump" before the public, the aim of the inventor has been to combine a simple, efficient, and durable pump.

It having been in use in many places for nearly four years with a success unequalled by any other steam pump, justifies us in stating that it has all the qualities enumerated; that its parts are all simple and easy of access; it is efficient in working, being positive, having no dead centers; will not stop while there is steam to drive it, and will start at any part of the stroke, discharging the water of condensation, and is constructed with an eye more to use than show, yet finished in its working parts as well as any other pump.

Being manufactured on the premises, we are at all times prepared to repair, alter, or to make at the shortest notice.

We claim to do as much work with them, and with as little steam, as can be done with any other pump of the same size.

It involves no untried principles of action, both the steam valves are the ordinary slide valves (familiar to every engineer), the small or auxillary valve working within a recess in the main valve, both working on the same valve seat, a feature sure to be appreciated by all.

The water end will also commend itself to the practical engineer.

The valve chambers are so constructed as to permit the attendant to get at the valves by the removal of a single nut. The valves are flat, and made of the best composition metal, or faced with rubber, leather, or such other material, as experience has proved to be best for the purpose for which the pump is intended. In cases where it is necessary to have a new valve, and parties are beyond the reach of the manufacturers, the valve being flat, a piece of flat wood of the same size will answer equally as well as the composition valves.

The valve seats are also of composition metal, and are equally adapted for hot or cold water, and being made in duplicate, they can, if worn out or damaged, be removed and replaced by new seats at a trifling cost. The steam and water cylinders are fitted with the most perfect spring ring packing.

We have many letters certifying to the superiority of the Selden Pump, of which the following are a few:—

CARATAL, Venezuela, S. A., February 20, 1870.

A. CARR, ESQ., New York, U. S.

DEAR SIR: In answer to your inquiry, I would state that in February, 1870, I ordered nine of your pumps—some of them to be used as boiler feeders and others as mining pumps.

They were all shipped to this place and erected on the gold mines. One of the No. 5 size was put down a shaft 175 feet from the surface, and steam conveyed down through a 1¼ inch pipe. As soon as steam was admitted to the pump it started without any trouble, working as smoothly as if lifting the water but a few feet to the surface. The water in the mine was soon exhausted, and then we commenced sinking, with the aid of the pump, which was in charge of the miners. It has been running eight months, and during that time it has given no trouble, or cost anything for repairs. I have had considerable experience, both in Colorado and North Carolina, with most of the other pumps built, and while I can truly say there is a number of very excellent pumps I have used for mining purposes, there is not one that has given me such good satisfaction as the "Selden" Pump.

The other pumps were put to ordinary work as feeders, etc., and gave every satisfaction—they were in every respect as represented by you.

I am, yours very truly,

JAMES BAXTER,

Mining Engineer.

A. CARR, MANUFACT[illegible] NEW YORK.

Digitized by Google

OFFICE LODI MANUFACTURING COMPANY,
Office, 66 Cortlandt, Street,
New York, June 10, 1871.

A. CARR, ESQ.

DEAR SIR: Last winter, with a little doubt and reluctance, being in want of a steam pump, I took your recommendation and purchased a Selden Direct Action Steam Pump My engineer and foreman demurred at using it, before they tried it, but now say it is the best pump they have ever used, and that it gives them the least trouble. I have since then bought and put in use two more of them, and shall order another in a few days,* which is the best evidence I can give of how they suit me. I can recommend them as the most reliable pump in the market.

Yours respectfully,
JAMES R. DEY.

* Since ordered.

NEW YORK, June 13, 1871.

A. CARR, ESQ.

DEAR SIR: Yours of the 10th is received. The Selden Pump, purchased about one year ago, has been constantly running, doing its work perfectly, without repairs, and given no trouble of any sort. I believe the Selden Pump a good one.

Yours respectfully,
DAVID M. NICHOLS,
Boiler Maker.

GREENVILLE, N. J., June 19, 1871.

ADAM CARR, ESQ.

DEAR SIR: We have used your No. 3 Selden Pump for the last twelve months, and during that time it has given us satisfaction. Can recommend it to parties about buying.

Respectfully yours,
WM. CURRIE & BRO.

MONSEY, N. Y., June 17, 1871.

DEAR SIR: We received your inquiry in regard to pump, and will say that we think it one of the best that we have ever used. Its simplicity and durability recommend it to all country mills using steam, on account of its less liability to get out of order, which is very desirable, on account of not being near to manufactory to get repairs done. The size we have, with one inch pipe, will supply our engine, thirty horse power, at about thirty strokes a minute. It is one of the first that you made, and has not all the improvements of the later ones.

Yours truly,
STEPHENS & GURNEE.

DUNMORE, August 16, 1871.

A. CARR, ESQ., 43 Cortlandt Street, New York.

DEAR SIR: In reference to the performance of your steam pump, we have been working it pretty much during the past year, under a head of 120 feet, and is still working in good order. We think very much of it.

Yours truly,
JOHN BUTLER,
Engineer Penn. Coal Co.

Large Pumps for Mines, Water Works, Fire and Wrecking Pumps, either piston or plunger.

We do not hesitate to offer this pump as the most perfect, simple, efficient, and durable pump ever placed before the public. They are fully warranted in every respect.

A. CARR, MANUFACTURER, NEW YORK.

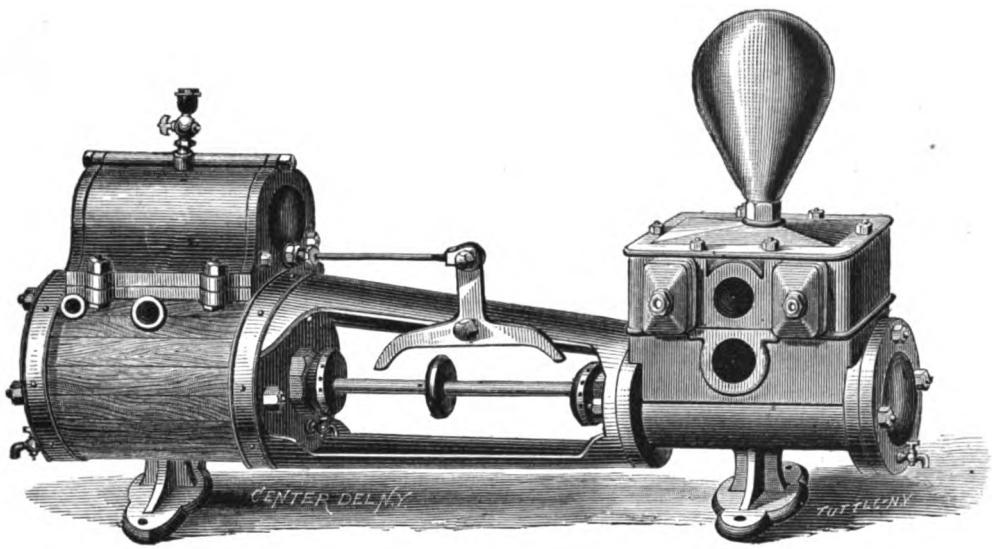
Digitized by Google

A. CARR, MANUFACTURER, NEW YORK.

SELDEN

DIRECT ACTION STEAM PUMP.

Patented August 2, 1870, and December 20, 1870.



PRICE LIST

Of Boiler Feed Pumps, or for Pumping under Great Pressure, or to a High Elevation.

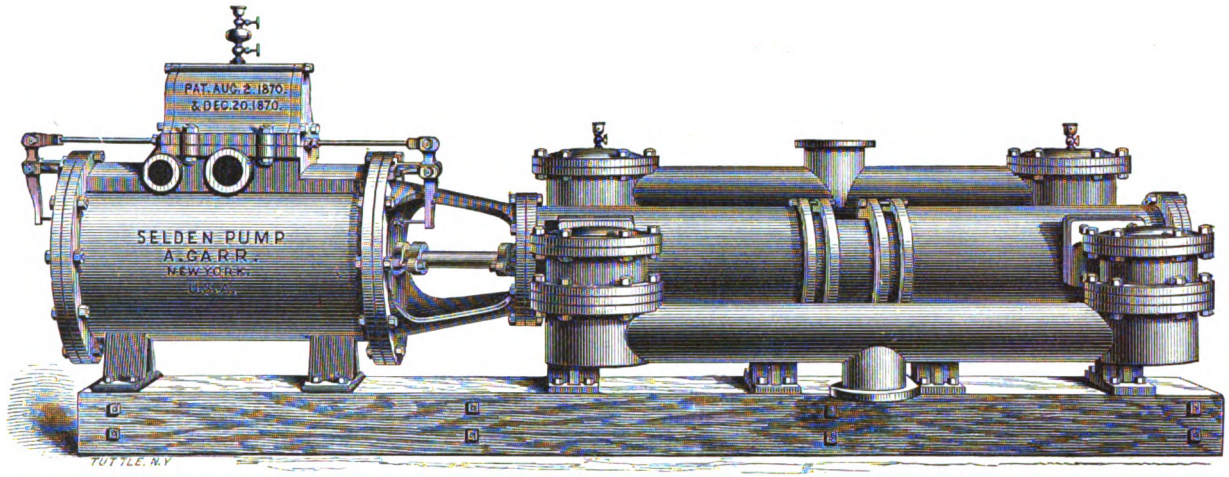
No.	Diam. of Steam Cylinder in ins.	Diam. of Water Cylinder in ins.	Length of Stroke in inches.	No. of Strokes per minute to pump galls. per minute.	No. strokes per minute capable of running.	Size of Steam Pipe.	Size of Exhaust Pipe.	Size of Suction Pipe.	Size of Discharge Pipe.	Prices.
1	3	1¾	5	150 strokes 10 gals.	1 to 300	⅜ in.	½ in.	Two 1 in.	Two ¾ in.	$125
2	4	2½	6	" " 18 "	1 300	½	¾	" 1½	" 1	150
3	5	3	7	" " 32 "	1 275	¾	1	" 1½	" 1¼	225
4	6	3½	8	" " 50 "	1 275	¾	1	" 2	" 1½	275
5	7	4	9	125 " 60 "	1 250	1	1¼	" 2½	" 2	375
6	8	5	10	" " 127 "	1 250	1½	1½	" 3	" 2½	400
7	10	6	12	100 " 146 "	1 200	1½	2	" 3½	" 3	475
8	12	7	12	" " 200 "	1 200	2	2½	" 4	" 3½	550
9	14	8	12	" " 260 "	1 200	2	2½	" 4½	" 4	600
10	16	10	16	75 " 408 "	1 200	2½	3	" 6	" 5	800
11	18	12	24	50 " 550 "	1 180	2½	3	" 8	" 7	These sizes made to order.
12	20	14	24	" " 750 "	1 180	3	3½	" 10	" 8	
13	24	18	24	" " 1300 "	1 150	3½	4	" 12	" 10	
14	30	22	24	" " 2000 "	1 150	4	5	" 14	" 12	

☞ When ordering a pump please state for what purpose it is required, as a knowledge of the condition under which it is to be used will enable us to supply valves and other parts found to suit in similar cases. We will line them with composition if wanted to pump liquids requiring it. Steam, Exhaust, Suction and Discharge Pipes are duplicated, one each side of the pump, so that connections may be made on either side.

Digitized by Google

MINING AND WATER-WORKS PUMPS.

Arranged with special reference to pumping water containing dirt or gritty matter.



Upon the next page will be found the most complete list of MINING and WATER-WORKS PUMPS ever offered to the public. They are of the style known as PLUNGER PUMPS, having two water cylinders, the same plunger working in both, making it a double acting pump, thus enabling them to work under the greatest pressure with perfect steadiness.

To the valves and their construction I have given especial attention, they are all made so large that by lifting from three-eighths of an inch, in the smaller sizes, to one and a quarter of an inch, in the larger sizes, they will give the full capacity of the suction and discharge pipes. I have never yet built a pump in which the action of the valves could be heard even with the ear upon the valve chamber, when working under a test pressure equal to three hundred and fifty (350) feet. I would call especial attention to the construction of my valve chambers. It will be observed that they are made with the upper and lower chambers cast in separate parts, and having the plate upon which is the valve seat between them, the whole being securely bolted together, should any accident occur to the seat plate it can be readily taken out, and repaired or renewed without loss of any other part. The valve seat is made of the best composition, and attached to the plate, and can be taken out and replaced in a few minutes by taking off the cover. The seats being made to template, can be furnished at any time, ready to put in.

They are very much superior to the piston pump for all situations where the water or other liquid is at all muddy or gritty, as the water cylinder is from one and a half to two inches larger than the plunger; the surfaces are never in contact, and so avoid the friction and grinding out of the surfaces, and consequent leaking and great loss of time, and the expense for repairs of the piston pumps.

Digitized by Google

In the steam end I use the same valves as are used in the piston pump, the flat-faced slide-valves familiar to every engineer; but the valve gear, it will be observed, is different, being the most simple valve gear now in use, it is operated directly by the travel of the piston, and is absolutely positive in its action. The pump will not stop so long as it has steam to drive it, and there is no point where it can stop without leaving the steam ports full open thus insuring absolute certainty that it will start at once when the steam is let on. By the use of this valve gear, I can bring the steam and water cylinders of my longest stroke pumps so near together, as just to leave sufficient room to pack the glands, making them very compact and strong. The valves will discharge the water of condensation without choking. I have often run my pumps with water instead of steam, and they will run as steady and reverse as promptly as with steam. My pumps will start promptly and run well under water, as has been proven on several occasions by their being submerged by the flooding of the mine. On one occasion there being no steam for several days, owing to the boilers giving out, the mine was flooded, yet as soon as steam was let down the pump started promptly, and was run at a higher rate of speed than it had ever been run at before. .

I build these pumps of great strength, of the best material, and with a view to the severe duty they are required to perform. Every part is made to gauge and template, so that any part can be duplicated at any time.

I offer these pumping engines upon the fullest guarantee that they will perform the duty for which they are sold.

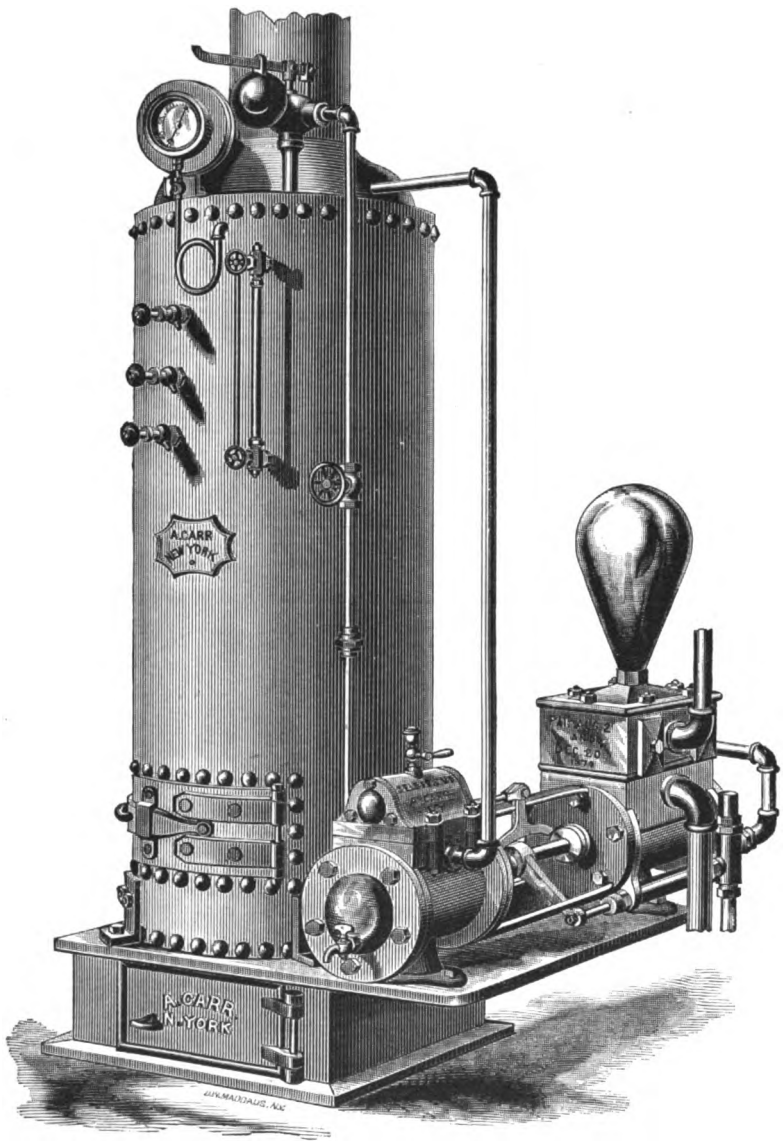
PRICE LIST.

Size of Steam Cylinder, Inches.	Size of Plunger, Inches.	Length of Stroke, Inches.	Gallons per Stroke.	Strokes per Minute.	Size of Steam Pipe, Inches.	Size of Exhaust Pipe, Inches.	Size of Suction Pipe, Inches.	Size of Discharge Pipe, Inches.	PRICE.
8	5	10	.86	1 to 200	1	1¼	3	3	$550.00
8	6	18	2.20	1 to 150	1¼	1½	4	4	650.00
10	6	18	2.20	1 to 150	1½	2	4	4	700.00
10	6	30	3.66	1 to 75	1½	2	4	4	Prices Furnished on Application.
12	6	18	2.20	1 to 125	2	2½	4	4	
12	6	30	3.66	1 to 75	2	2½	4	4	
12	8	18	3.92	1 to 150	2	2½	6	6	
12	8	30	6.54	1 to 75	2	2½	6	6	
16	8	18	3.92	1 to 150	2½	3	6	6	
16	8	30	6.54	1 to 75	2½	3	6	6	
18	10	36	12.27	1 to 60	2½	3	8	8	
18	12	36	17.65	1 to 60	2½	3	10	10	
24	12	36	17.65	1 to 60	3½	4	10	10	
24	12	48	23.53	1 to 50	3½	4	10	10	
24	12	60	29.40	1 to 40	3½	4	10	10	
24	12	72	35.30	1 to 30	3½	4	10	10	
30	15	36	27.54	1 to 60	4	5	12	12	
30	15	48	36.72	1 to 50	4	5	12	12	
30	15	60	45.90	1 to 40	4	5	12	12	
30	15	72	55.08	1 to 30	4	5	12	12	
36	18	36	39.66	1 to 60	5	6	15	15	
36	18	48	52.88	1 to 50	5	6	15	15	
36	18	60	66.10	1 to 40	5	6	15	15	
36	18	72	79.32	1 to 30	5	6	15	15	

Digitized by Google

COMBINED PUMP AND BOILER,

WITH BOILER FEED ATTACHMENT.



(Cut represents 7 inch Tank Pump, with Feed Pump attached, and Boiler, complete.)

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

PRICE LIST OF THE SELDEN PATENT COMBINED PUMP AND BOILER,

COMPLETE WITH FIXTURES.

SIZE OF PUMP.	DIMENSIONS OF PUMP.									DIMENSIONS OF BOILER.						PRICE COMPLETE.
	Diam. of Steam Cylinder.	Diam. of Water Cylinder.	Stroke.	Gallons per Stroke.	Strokes per Minute.	Steam Pipe.	Exhaust Pipe.	Suction Pipe.	Discharge Pipe.	Diameter of Shell.	Height of Shell.	Number of Tubes.	Diameter of Tubes.	Length of Tubes.	Size of Fire-box.	
No. 1	4	2½	5	.074	1 to 350	½	¾	1¼	1	24 in.	60 in.	25	2 in.	42 in.	18 x 18	$465.00
" 2	4	2½	6	.106	1 to 350	½	¾	1¼	1	24 in.	60 in.	25	2 in.	42 in.	18 x 18	$525.00
" 3	5	3	7	.251	1 to 300	¾	1	1½	1¼	24 in.	60 in.	25	2 in.	42 in.	18 x 18	$575.00
" 4	6	3½	7	.334	1 to 300	¾	1	2	1½	24 in.	60 in.	25	2 in.	42 in.	18 x 18	$600.00
" 5	7	4	10	.688	1 to 250	1	1¼	2½	2	30 in.	72 in.	36	2 in.	54 in.	21 x 18	$825.00
" 6	8	5	10	.850	1 to 250	1¼	1½	3	2½	30 in.	72 in.	36	2 in.	54 in.	21 x 18	$850.00
" 7	10	6	12	1.468	1 to 200	1½	2	3½	3	36 in.						$1,050.00
" 8	12	7	12	1.953	1 to 200	2	2½	4	3½	36 in.						$1,150.00
TANK PUMPS. A	4	4	5	.27	1 to 350	½	¾	2½	2½	24 in.	60 in.	25	2 in.	42 in.	18 x 18	$550.00
TANK PUMPS. B	5	5	7	.72	1 to 300	¾	1	3	2½	24 in.	60 in.	25	2 in.	42 in.	18 x 18	$650.00
TANK PUMPS. C	7	7	10	1.65	1 to 250	1	1¼	4	3½	30 in.	72 in.	36	2 in.	54 in.	21 x 18	$850.00
TANK PUMPS. D	8	8	12	2.65	1 to 200	1¼	1½	4½	4	30 in.	72 in.	36	2 in.	54 in.	21 x 18	$950.00

In the combination of Portable Boiler and Pump, illustrated upon the opposite page, will be found the most simple, compact and complete arrangement for the pumping of water into tanks for dwellings, factories and railroad water stations. It can be placed at the most convenient point, at river, well, or spring, and the water forced to the tank any required distance or height. As the connections are all complete between the boiler and pump, and all cocks, valves and gauges in their place, it does not require a skilled mechanic to set up and operate it. It can be managed with safety by a person of ordinary intelligence, after a few hours instruction.

The boilers will, in all cases, be made of the best iron and tested to a hydrostatic pressure of not less than 150 lbs.

Where water is to be forced to a greater height than 50 to 75 feet, the numbered pumps, from 1 to 8, are recommended; but for all cases where the height is less, the letter or tank pumps are recommended as they will give a much greater pumping capacity at no greater cost. The numbered pumps will feed the boiler direct, but where the lettered or tank pumps are used, there is a plunger pump attached for feeding the boiler, as will be seen in the engraving. Where required these pumps have an improved hand attachment for filling boiler, or feeding when steam is low.

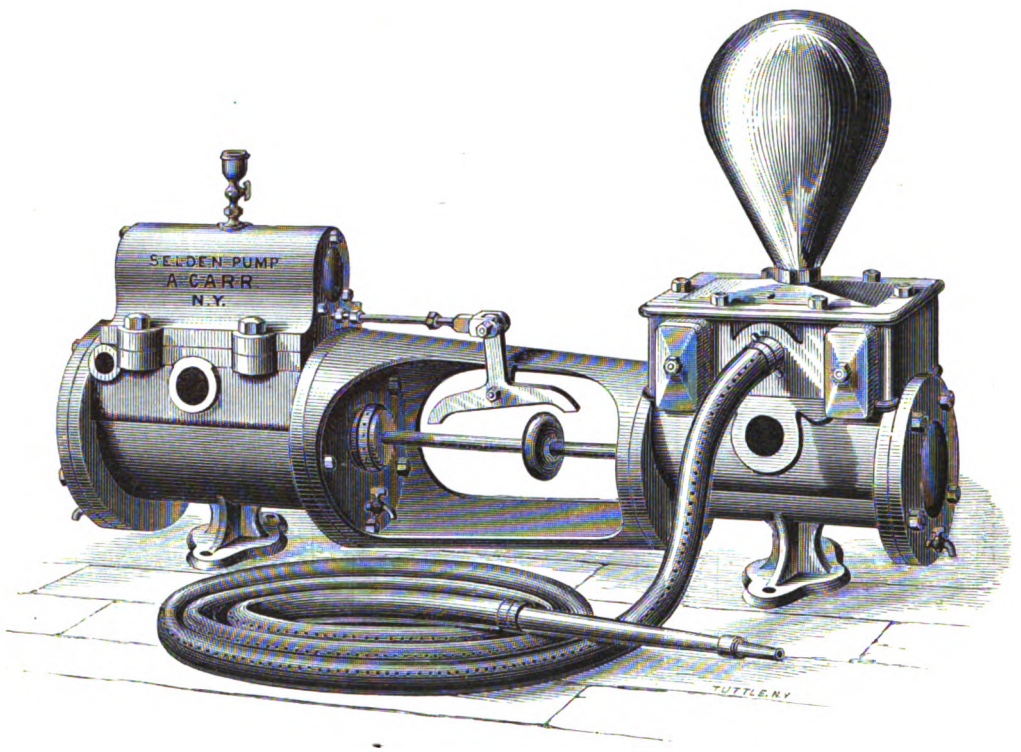
The pump being attached to cast-iron plate extending from the side of the ash-box, obviates the necessity of building foundation, setting and connecting pump, etc., after it has arrived at its destination.

In ordering, please state fully the particular service required of Pump.

NOTICE.—The prices on Boilers are liable to be changed at any time, according to the state of the iron market.

Digitized by Google

SELDEN PATENT STEAM FIRE PUMP.



PRICE LIST.

No.	Diam. Steam Cylinder in inches.	Diam. Water Cylinder in inches.	Length of Stroke in inches.	Gallons per Stroke.	Strokes per Minute.	Size of Steam Supply Pipe.	Size of Steam Exhaust Pipe.	Size of Suction Pipe.	Size of Discharge Pipe.	PRICE.
6½	10	5	12	1.02	1 to 200	1½	2	Two 3	Two 2	$425.00
7	10	6	12	1.46	1 to 200	1½	2	" 3½	" 3	475.00
7½	12	6	12	1.46	1 to 200	2	2½	" 3½	" 3	500.00
8	12	7	12	1.99	1 to 200	2	2½	" 4	" 3½	550.00
8½	14	7	12	1.99	1 to 200	2	2½	" 4	" 3½	575.00
9	14	8	12	2.61	1 to 200	2	2½	" 4½	" 4	600.00
9½	16	8	16	3.48	1 to 200	2	2½	" 4½	" 4	750.00
10	16	10	16	5.43	1 to 180	2½	3	" 6	" 5	800.00
10½	18	9	24	6.60	1 to 180	2½	3	" 5	" 4	MADE TO ORDER.
11	18	12	24	11.75	1 to 180	2½	3	" 8	" 7	
11½	20	10	24	8.16	1 to 180	3	3½	" 6	" 5	
12	20	14	24	15.95	1 to 180	3	3½	" 10	" 8	
12½	24	12	24	11.75	1 to 180	3½	4	" 8	" 7	
13	24	18	24	26.43	1 to 150	3½	4	" 12	" 10	
13½	30	15	24	18.36	1 to 150	4	5	" 10	" 8	
14½	30	22	24	39.49	1 to 150	4	5	" 14	" 12	

In the above list of fire pumps the full numbered pumps are intended for situations where the buildings are not very high. The half-numbers, having larger steam cylinders, are better adapted to situations where the buildings are high, as they have much greater power than the other. These should always be used where parties carry their steam at a low pressure.

They are the most efficient fire pumps now made having two discharge openings they can be used for feeding the boiler from the one side, while the hose remains permanently attached upon the other. If used for fire purposes only, two lines of hose can be permanently attached to the pump.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

TANK PUMPS,

With or without Boiler Feed Pump attached.

The following pumps are made especially for raising water or other liquids into tanks or reservoirs for railroad stations, tanneries, oil works, etc., etc.

PRICE LIST.

Diameter of Steam Cylinder in Inches.	Diameter of Water Cylinder n Inches.	Length of Stroke in Inches.	Gallons per Stroke.	Strokes per Minute.	Size of Steam Supply Pipe.	Size of Steam Exhaust Pipe.	Size of Suction Pipe.	Size of Discharge Pipe.	PRICE.
4	4	6	.33	1 to 275	¼	¾	Two 2½	Two 2	$200.00
5	5	7	.62	1 to 275	¾	1	" 3	" 2½	300.00
6	6	8	.97	1 to 275	¾	1	" 3½	" 3	350.00
7	7	9	1.72	1 to 275	1	1¼	" 4	" 3½	400.00
8	8	12	2.61	1 to 250	1	1¼	" 4½	" 4	450.00
10	10	16	5.43	1 to 250	1½	2	" 6	" 5	650.00
10	12	16	7.83	1 to 250	1½	2	" 8	" 7	700.00
12	12	16	7.83	1 to 250	2	2½	" 8	" 7	800.00
14	12	24	11.75	1 to 200	2	2½	" 8	" 7	These sizes made to order. Prices according to the peculiarities of the work they are required to do.
14	14	24	15.99	1 to 200	2	2½	" 10	" 8	
14	18	24	26.43	1 to 175	2	2½	" 12	" 10	
14	22	24	39.49	1 to 175	2	2½	" 14	" 12	
18	12	24	11.75	1 to 175	2½	3	" 8	" 7	
18	14	24	15.99	1 to 175	2½	3	" 10	" 8	
18	18	24	26.43	1 to 150	2½	3	" 12	" 10	
18	22	24	39.49	1 to 150	2½	3	" 14	" 12	
18	24	24	47.	1 to 150	2½	3	" 16	" 14	

Rubber, Leather, and Linen Hose, Screw and Patent Couplings, Play Pipes, Hydrant and Pump Connections, Water Valves, etc., on hand and to order.

LOCOMOTIVE PUMPS.

PRICE LIST.

	Diameter of Steam Cylinder.	Diameter of Plunger.	Length of Stroke.	Gallons per Minute.	Size of Steam Pipe.	Size of Exhaust.	Size of Suction.	Size of Discharge.	PRICE.
Horizontal or Vertical	4	2½	5	25 to 50	⅜	½	1½	1	$150.00
	5	3	6	35 " 60	½	¾	1½	1½	225.00

It can be hung under the footboard of the locomotive, or such other position as may be convenient.

LOW PRESSURE PUMPS.

The following pumps are used for pumping water for public and private buildings where steam at a low pressure can be used. They can be operated directly from low pressure heating apparatus, thus dispensing entirely with extra boiler or machinery; will run with steam as low as two pounds.

Size of Steam Cylinder.	Size of Water Cylinder.	Length of Stroke.	Gallons per Stroke.	Strokes per Minute.	Size of Steam Supply Pipe.	Size of Steam Exhaust Pipe.	Suction.	Discharge.	PRICE.
6	2	6	08	1 to 275	½	¾	1½	1	$225.00
8	3	9	.28	1 to 275	¾	1¼	2	1¼	325.00

Digitized by Google

MARINE PUMPS.

The following list of pumps are arranged and fitted especially for steamboats, steamships, and all marine purposes. They are made with large open valves and water passages, calculated for fire, bilge water, or any purpose on ship board, without choking. The water valves are very large, and can be got at by removing one nut only. Cylinders are composition lined, and piston rods solid composition. The piston heads are composition with spring rings, or arranged for leather, as desired.

PRICE LIST.

Diameter of Steam Cylinder.	Diameter of Water Cylinder.	Length of Stroke.	Gallons per Stroke.	Stroke per Minute.	Size of Steam Pipe.	Size of Exhaust Pipe.	Size of Suction.	Size of Discharge.	PRICE.
7	4½	10	.69	1 to 250	1	1¼	Two 2½	Two 2	$375.00
8	5	10	.85	1 to 250	1¼	1½	" 3	" 2½	400.00
10	5	12	1.02	1 to 250	1½	2	" 3	" 2½	425.00
10	6	12	1.46	1 to 250	1½	2	" 3½	" 3	475.00
10	7	12	1.99	1 to 250	1½	2	" 4	" 3½	512.00
10	8	12	2.61	1 to 200	1½	2	" 4½	" 4	537.00
12	5	12	1.02	1 to 200	2	2½	" 3	" 2½	462.00
12	6	12	1.46	1 to 200	2	2½	" 3½	" 3	512.00
12	7	12	1.99	1 to 200	2	2½	" 4	" 3½	550.00
12	8	12	2.61	1 to 200	2	2½	" 4½	" 4	575.00
14	5	12	1.02	1 to 200	2	2½	" 3	" 2½	487.00
14	6	12	1.46	1 to 200	2	2½	" 3½	" 3	537.00
14	7	12	1.99	1 to 200	2	2½	" 4	" 3½	575.00
14	8	12	2.61	1 to 200	2	2½	" 4½	" 4	600.00
16	10	16	5.43	1 to 200	2½	3	" 6	" 5	800.00
16	12	16	7.83	1 to 200	2½	3	" 8	" 7	MADE TO ORDER.
18	10	16	5.43	1 to 180	2½	3	" 6	" 5	
18	12	16	7.83	1 to 180	2½	3	" 8	" 7	
20	14	24	15.99	1 to 180	3	3½	" 10	" 8	
20	18	24	26.43	1 to 180	3	3½	" 12	" 10	
20	22	24	39.49	1 to 150	3	3½	" 14	" 12	
24	14	24	15.99	1 to 150	3½	4	" 10	" 8	
24	18	24	26.43	1 to 150	3½	4	" 12	" 10	
24	22	24	39.49	1 to 150	3½	4	" 14	" 12	

The above are made with solid composition water cylinders when desired.

RUBBER, LEATHER, AND LINEN HOSE.

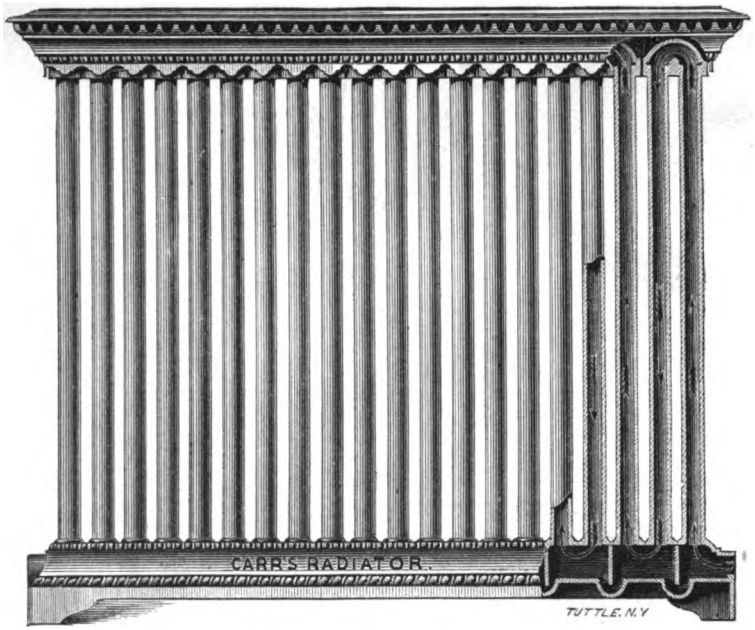
Screw and Patent Couplings, Play Pipes, Hydrant and Pump Connections, Water Valves, etc., on hand and to order.

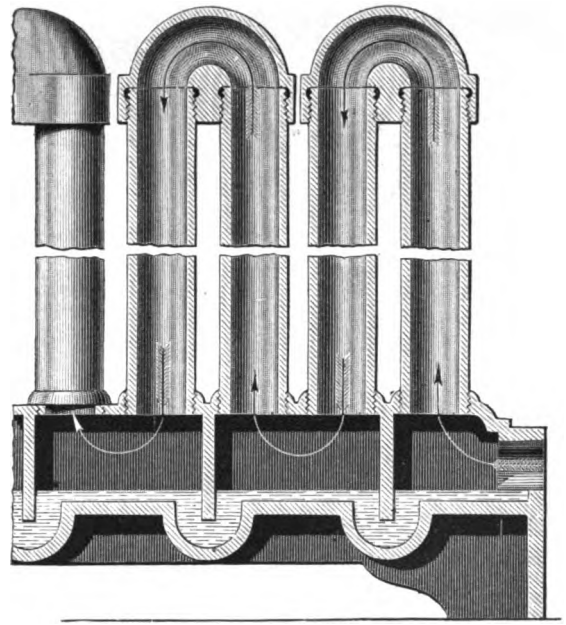
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

CARR'S POSITIVE CIRCULATING VERTICAL TUBE RADIATOR.

Patented May 6, 1878.





It has been the constant aim of the inventors and manufacturers of vertical tube radiators to secure a positive circulation of the steam in the tubes, in order to expel the air, and leave the whole of the radiating surface exposed to the steam. Many devices have been employed to accomplish this object, some of which have proved failures, and been abandoned, and the best of them fail in the first great requisite of vertical tube radiators, *positive circulation;* their failure is caused by the fact that the lower end of the pipe, or pipes, whether used singly and divided by a partition, or in pairs and connected at the top by return bends, have no positive inlet and discharge for the steam, both opening into a common steam chamber in the base, the steam will enter at the same time both sides of the single or divided pipe, or both pipes where connected by return bends, and force the air to the top of them, and the pressure being equal on both, there can be no circulation, and, consequently no radiation from that portion of the pipe exposed to the air, except as the air is heated by the steam, and as air is a very poor conductor of heat, the radiation will be very slight. There is no one who has had any experience with vertical tube radiators, but will have often noticed that some of the tubes will be hot while others are cold, and, again, some of them heated on the lower half of the tubes, while the upper half remains cold, caused by the want of a positive circulation, and consequent inability to expel the air.

An examination of the section of the above engraving of the Carr Radiator, will show that the object so long sought has been accomplished. A *positive circulation* of the steam being secured, while at the same time all trouble from the water of condensation is avoided. It will be observed in the section of the base, that between each pair of the pipes that are connected at the top, there are depressions in the bottom of the base, and a corresponding partition extending from the top of the base into the depression. When the steam is let on, the water of condensation passes along the bottom of the base, filling these depressions, passing under, and covering the bottom of the partitions forming a water seal, and thus preventing the passage of the steam. The steam will therefore follow the course of the arrows passing up the first pipe, and down the second, into the second chamber, there meeting with the resistance of the water seal, it will pass up the third pipe, and so into the third chamber, and so through any number of pipes to the discharge or return pipe, and as there is no other course for it to follow, it must necessarily expel the air and heat the whole of the pipes, while the water of condensation will fall to the bottom of the base, and pass off under the partitions to the discharge pipe.

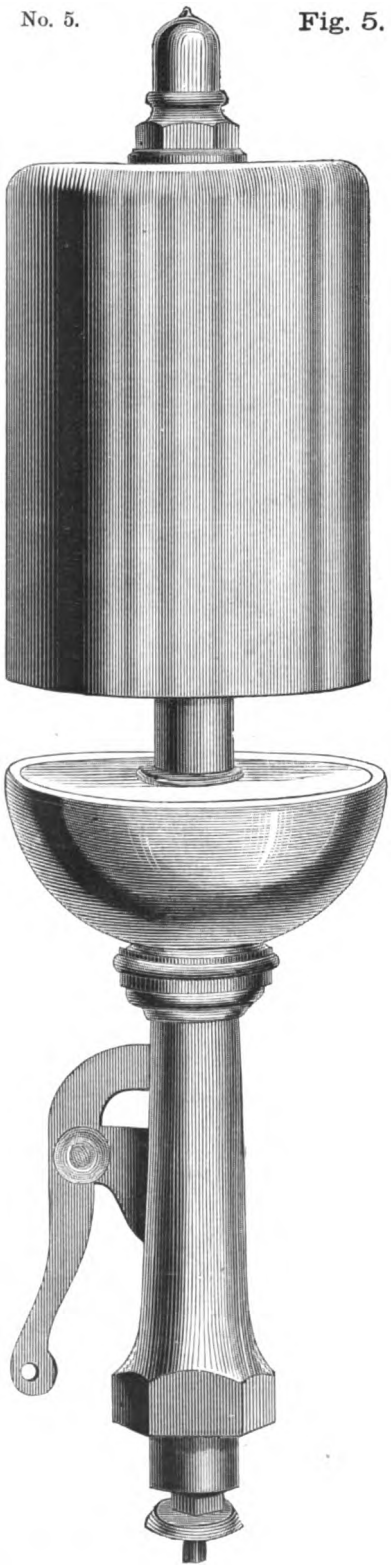
For low pressure or exhaust steam, this radiator is what has been long needed. It will work with a mere vapor, and without perceptible pressure, expelling the air with an ease and certainty that is not possible in any other.

Digitized by Google

STEAM WHISTLE.

BEST STEAM METAL.

No. 5. Fig. 5.



Diameter of Bell, 3, 4, 5, 6 inches.
Screwed for 1¼, 1½, 1½, 2 inch Iron Pipe.

WHISTLE VALVE.

BEST STEAM METAL.

No. 1. Fig. 6.

Sizes, ¾, 1, 1¼, 1½, 2, 2½ inches.

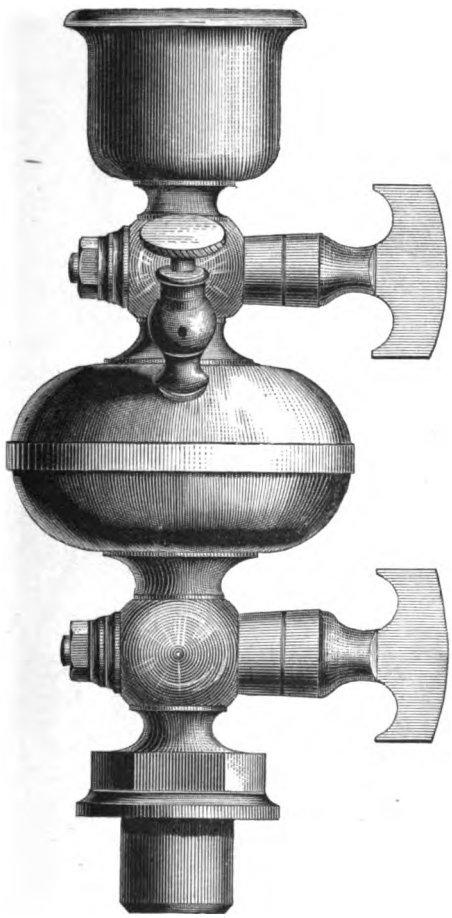
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

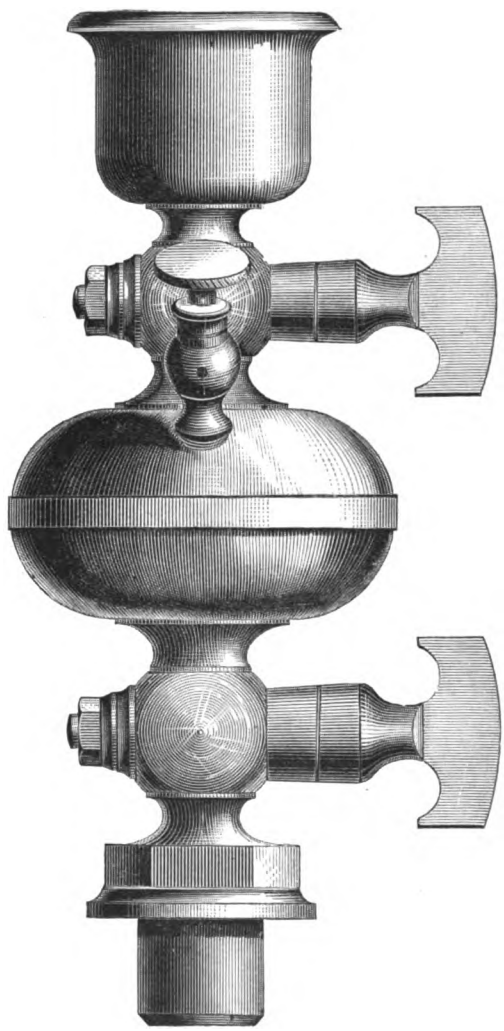
GLOBE OIL CUPS, BEST STEAM METAL.

(Full Size)

No. 00. Fig. 7.



No. 0. Fig. 8.

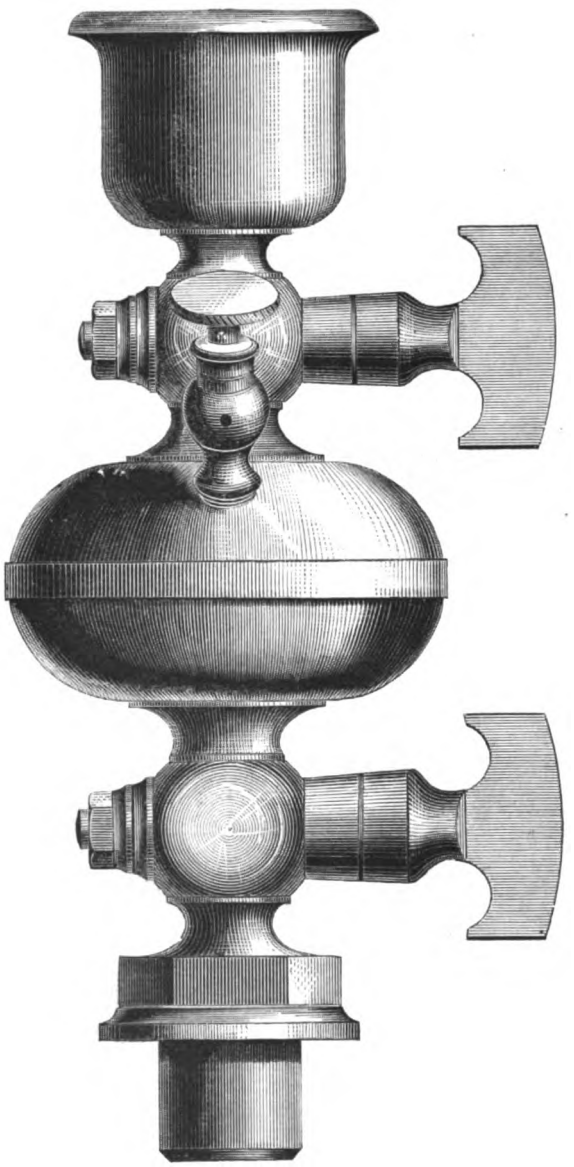


Digitized by Google

GLOBE OIL CUP, BEST STEAM METAL.

(Full Size.)

No. 1. **Fig. 9.**



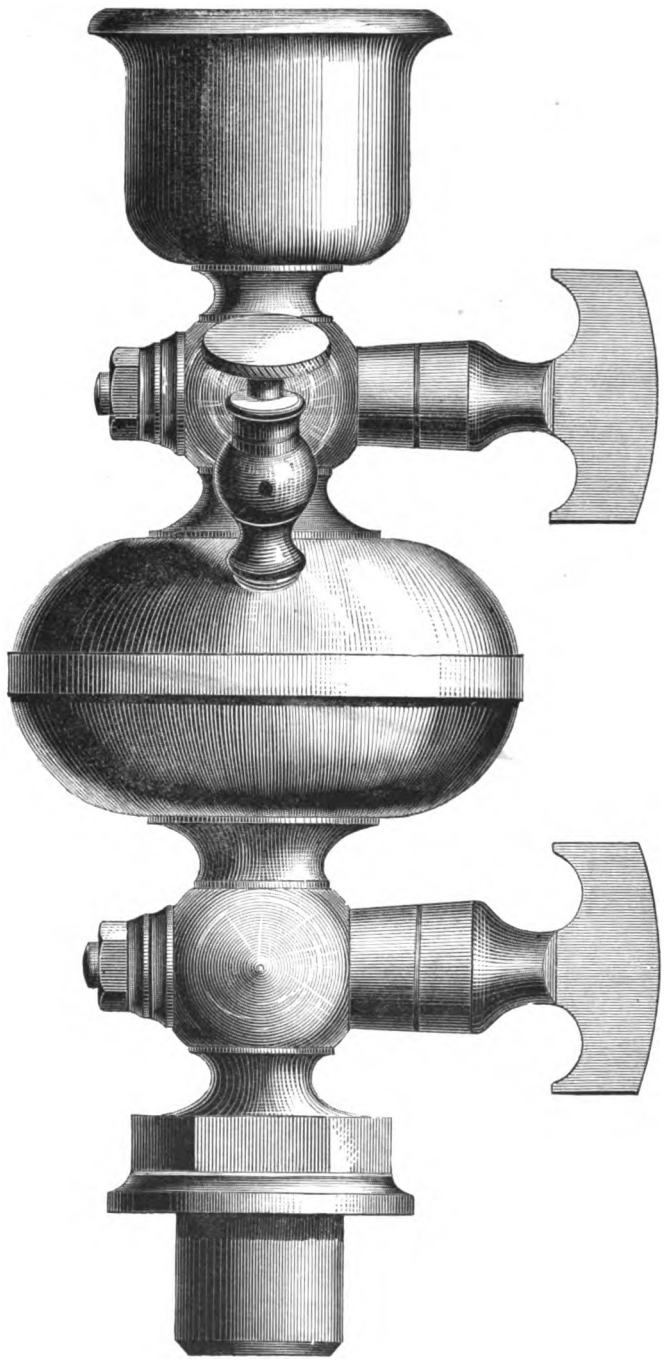
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

GLOBE OIL CUP, BEST STEAM METAL.

(Full Size.)

No. 2. Fig. 10.

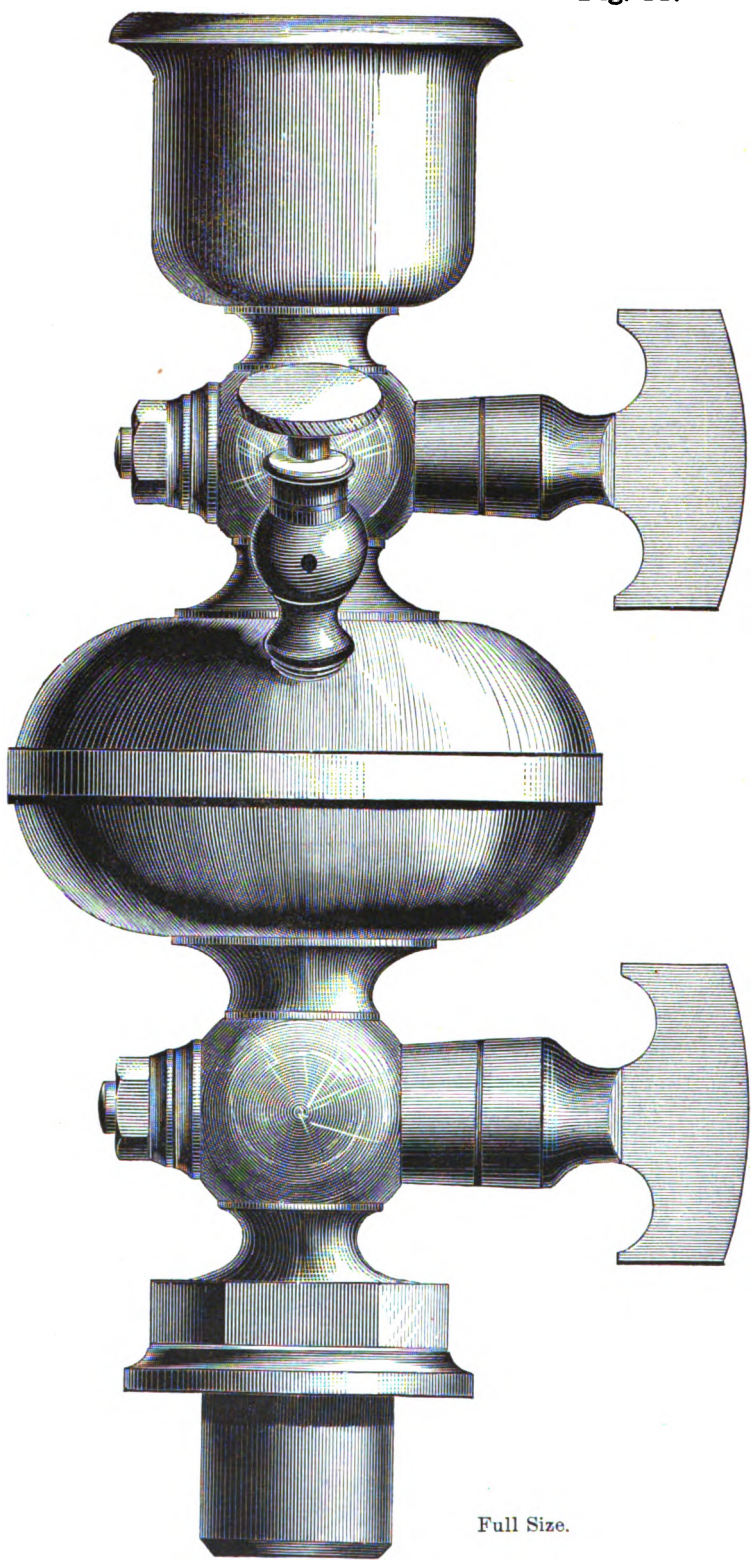


A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

GLOBE OIL CUP, BEST STEAM METAL.

No. 8. **Fig. 11.**



Full Size.

A. CARR, MANUFACTURER, NEW YORK.

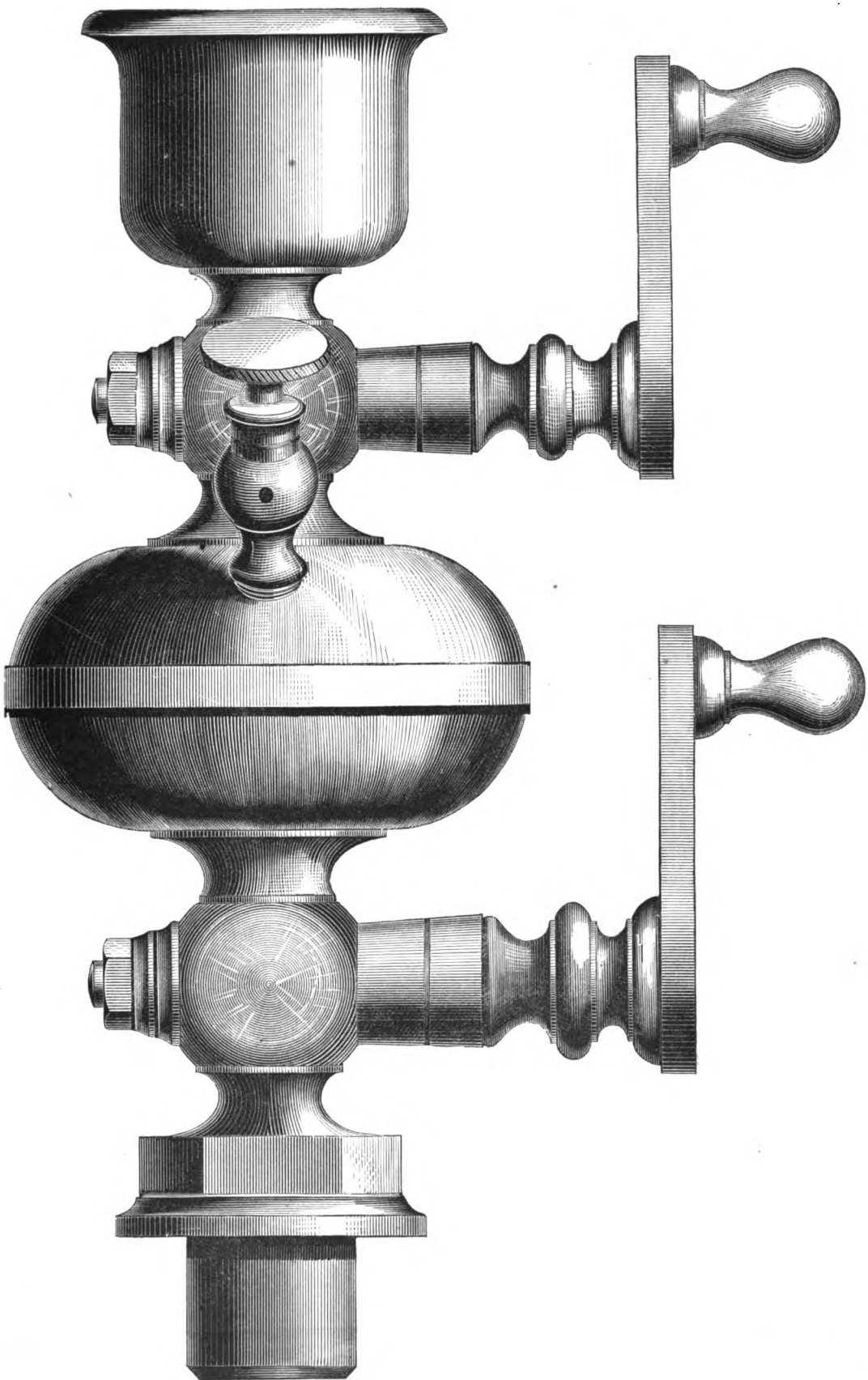
Digitized by Google

GLOBE OIL CUP, BEST STEAM METAL,

(Full Size.)

No. 4.

Fig. 12.



A. CARR, MANUFACTURER, NEW YORK.

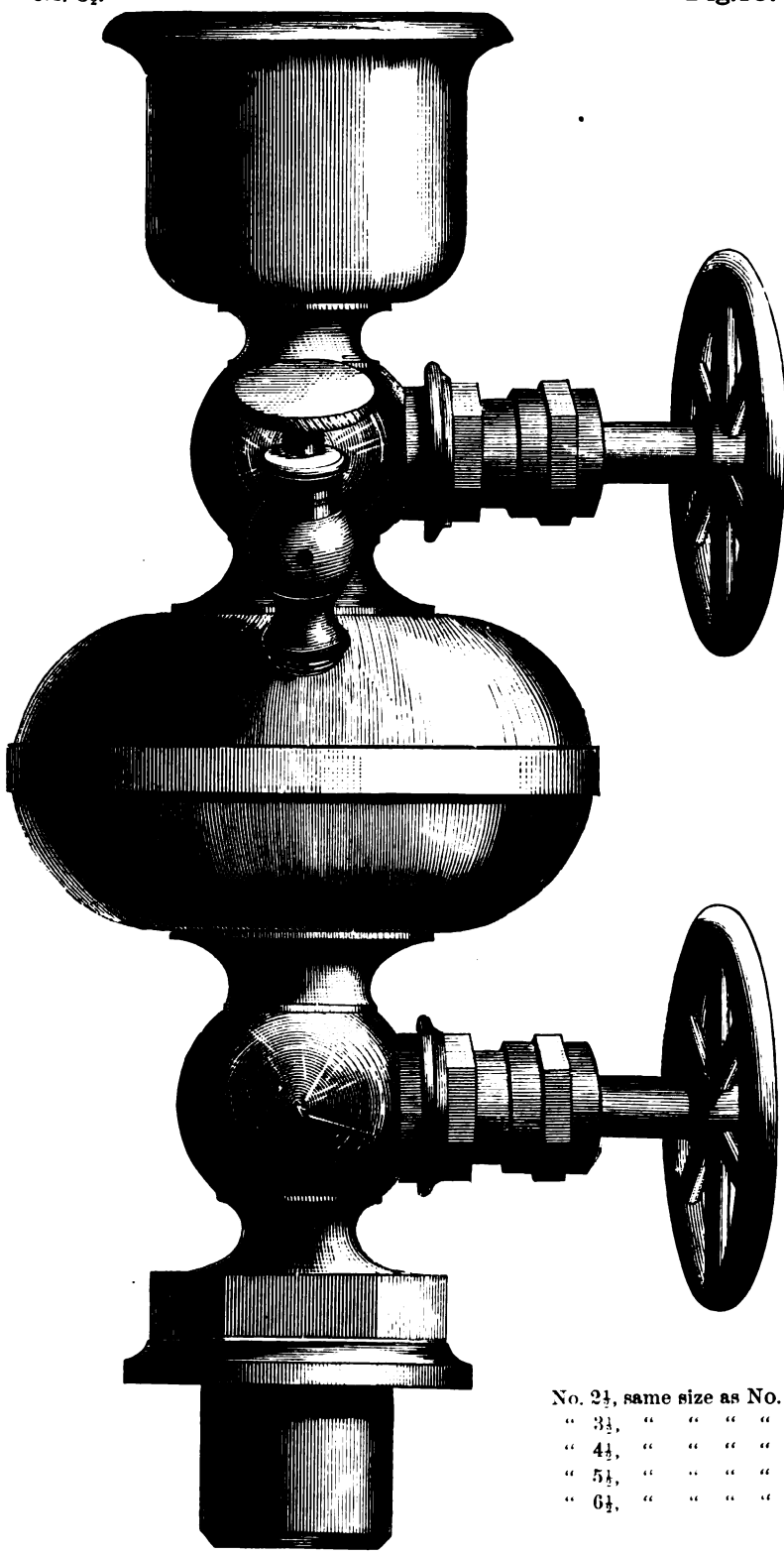
Digitized by Google

GLOBE VALVE OIL CUP, BEST STEAM METAL.

(Full Size.)

No. 8½.

Fig.15.



No. 2½, same size as No. 2.
" 3½, " " " " 3.
" 4½, " " " " 4.
" 5½, " " " " 5.
" 6½, " " " " 6.

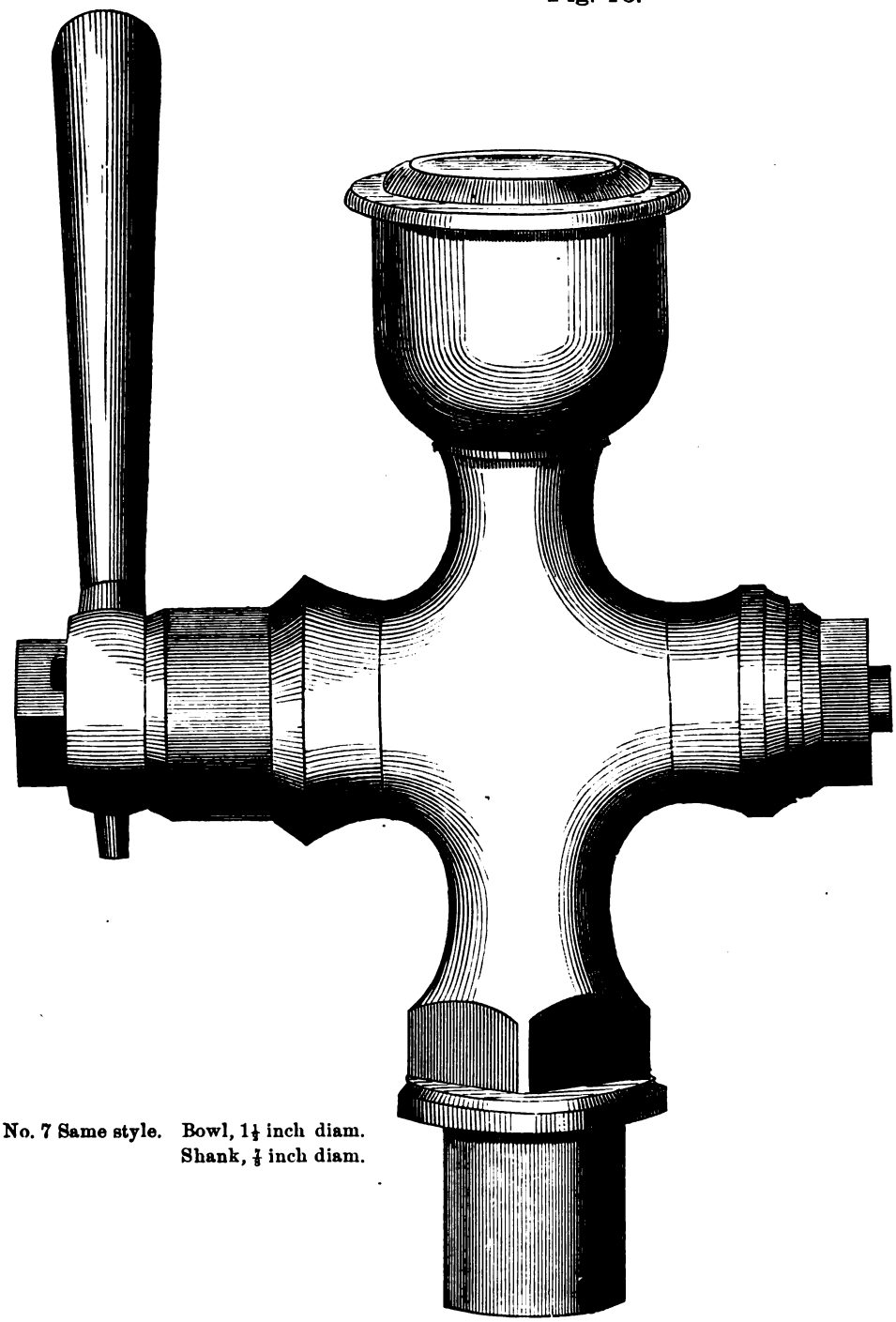
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

HOLLOW PLUG OIL CUP, BEST STEAM METAL.

(Full Size)

No. 8. Fig. 16.



No. 7 Same style. Bowl, 1¼ inch diam.
Shank, ⅜ inch diam.

A. CARR, MANUFACTURER, NEW YORK.

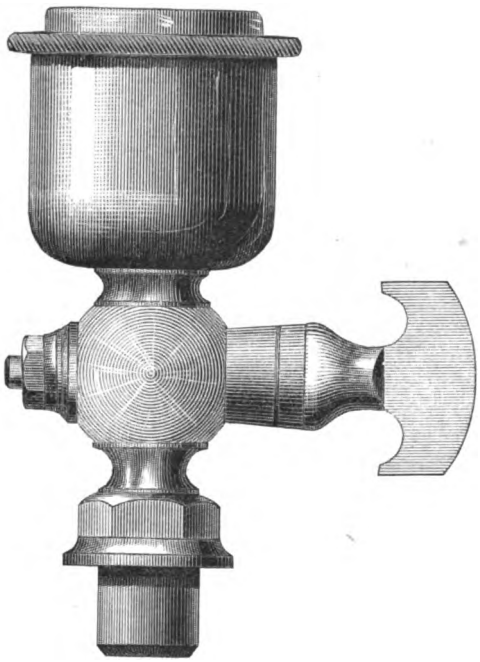
Digitized by Google

OIL CUPS WITH STOP COCK,

BEST STEAM METAL.

(Full Size.)

No. 9. Fig. 17.



No. 12. Fig. 18.

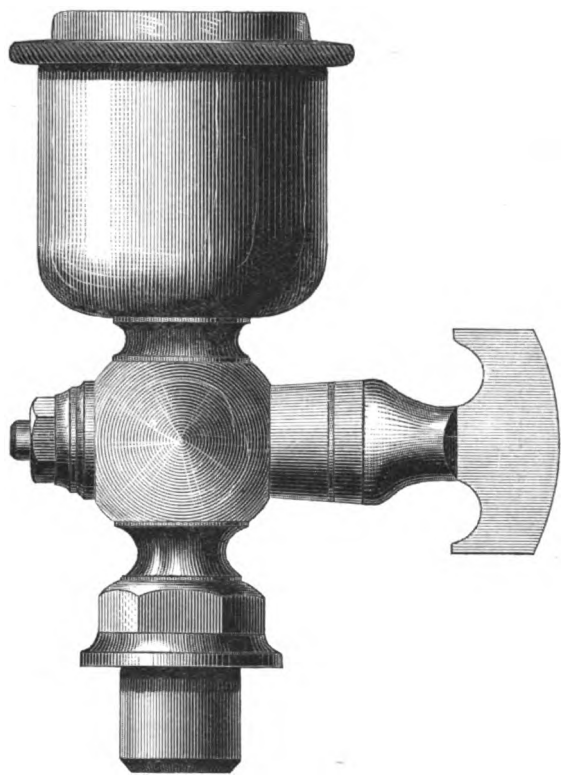
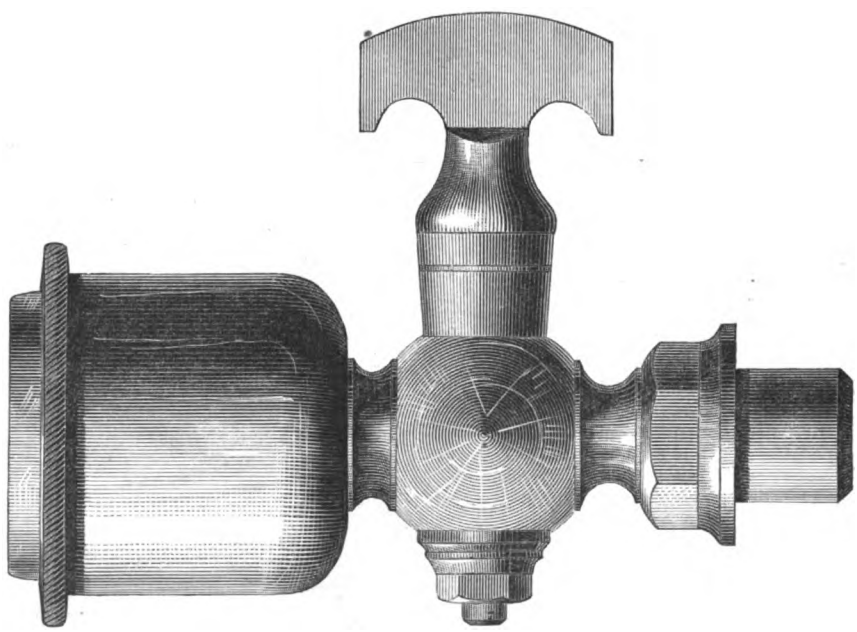


Fig. 19. No. 11.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

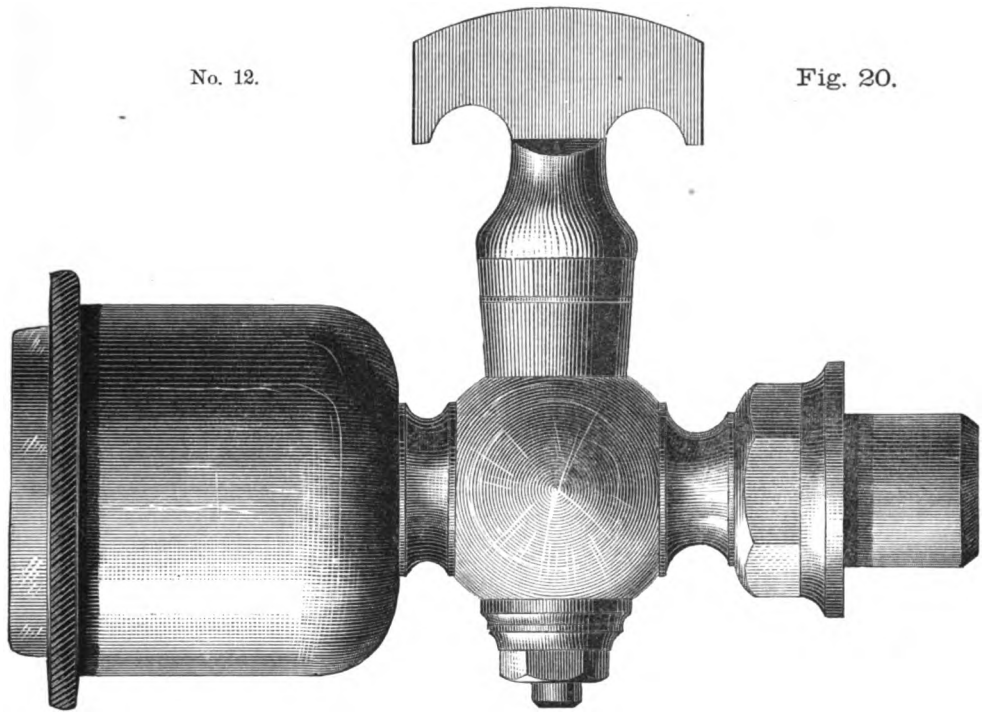
OIL CUPS WITH STOP COCK,

BEST STEAM METAL.

(Full Size.)

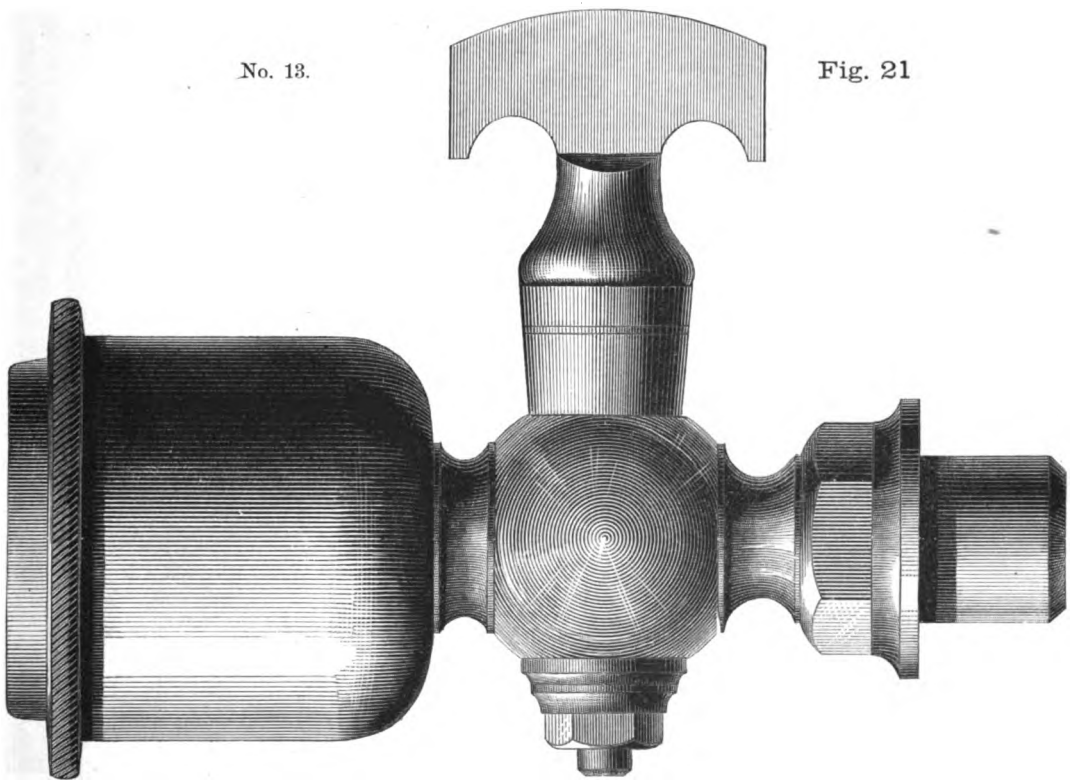
No. 12.

Fig. 20.



No. 13.

Fig. 21



A. CARR, MANUFACTURER, NEW YORK.

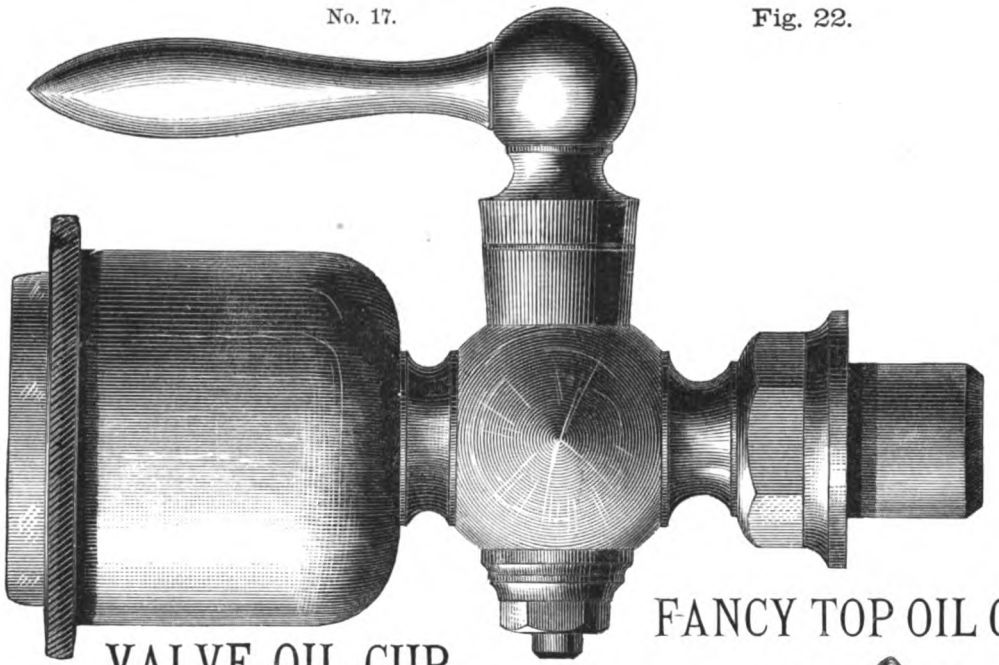
Digitized by Google

OIL CUP WITH LEVER HANDLE STOP COCK,

BEST STEAM METAL.

(Full Size.)

No. 17. Fig. 22.



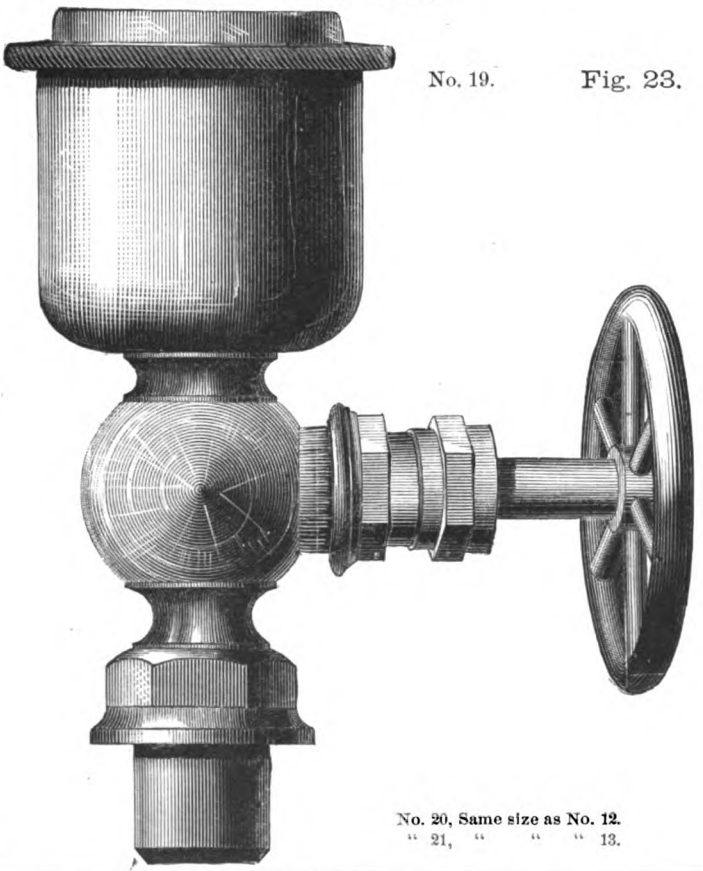
No. 16, Same size as No. 11.
" 18, " " " 13.

No. 14, Same size as No. 9.
" 15, " " " 10.

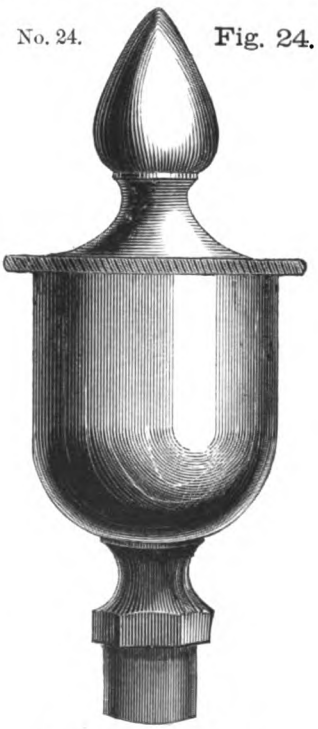
VALVE OIL CUP.

FANCY TOP OIL CUP.

No. 19. Fig. 23.



No. 24. Fig. 24.



No. 20, Same size as No. 12.
" 21, " " " 13.

No. 22, Same size as No. 32.
" 23, " " " 33.
" 24, " " " 34.
" 25, " " " 35.
" 27, " " " 37.
" 28, " " " 38.
" 29, " " " 39.
" 30, " " " 40.
" 31, " " " 41.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

PLAIN OIL CUPS, BEST STEAM METAL.

Fig. 24. No. 32.

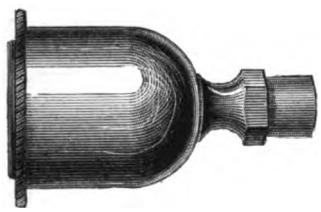


Fig. 25. No. 33.

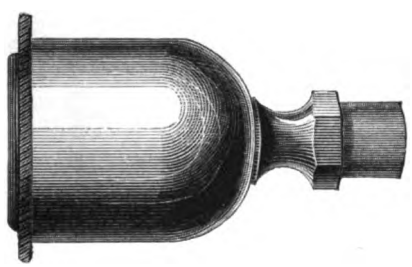


Fig. 26. No. 34.

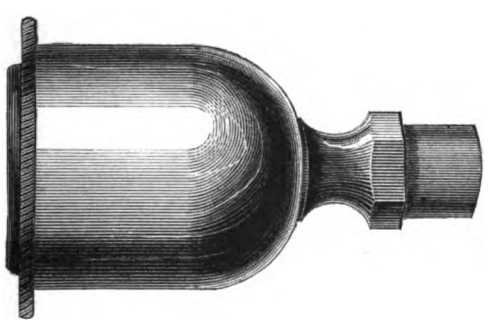
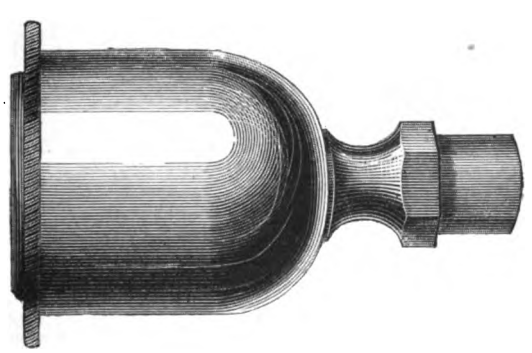
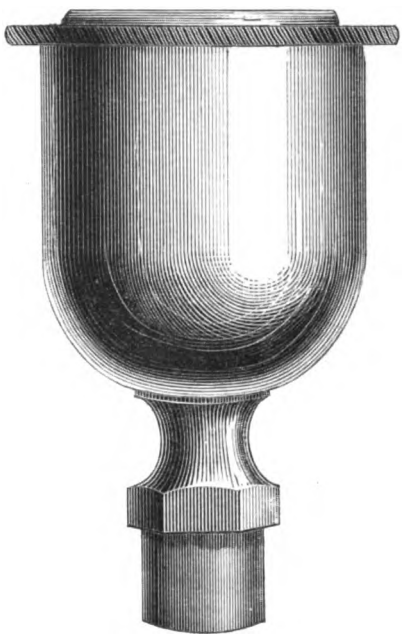


Fig. 27. No. 35.



No. 36. Fig. 28.



No. 37. Fig. 29.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

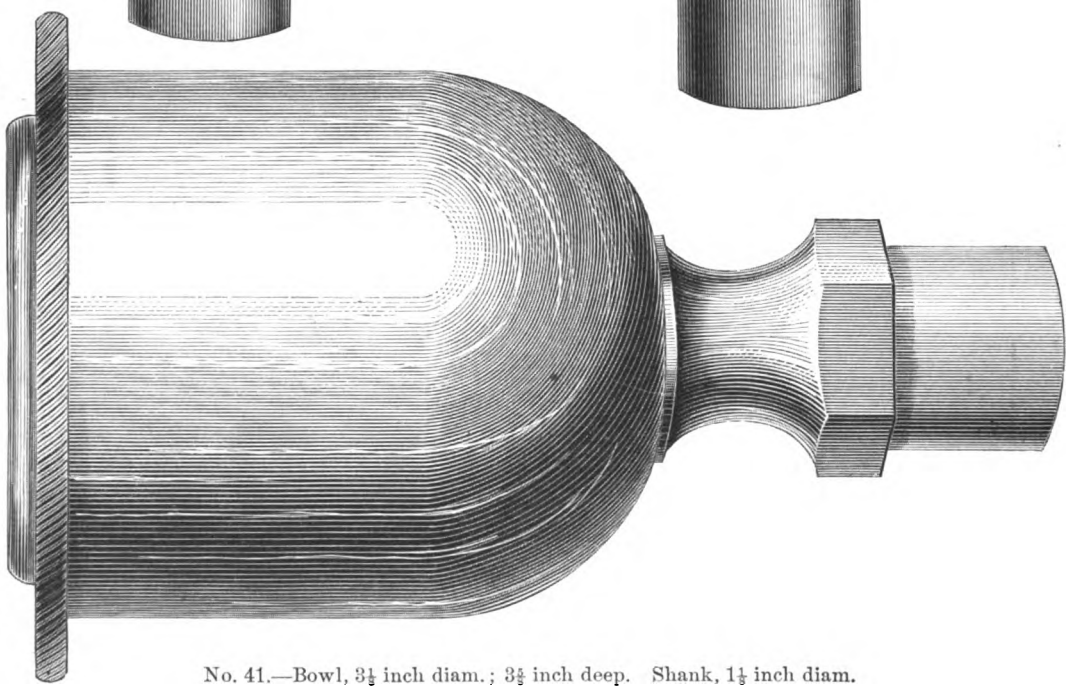
PLAIN OIL CUPS, BEST STEAM METAL.

(Full Size.)

No. 38. Fig. 30.

No. 39. Fig. 31.

Fig. 32.



No. 40.

No. 41.—Bowl, $3\frac{1}{2}$ inch diam.; $3\frac{5}{8}$ inch deep. Shank, $1\frac{1}{8}$ inch diam.

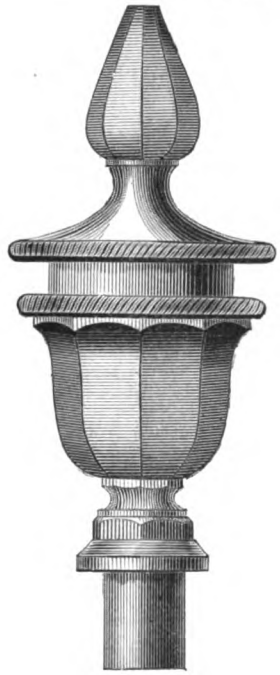
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

OCTAGON OIL CUPS, BEST STEAM METAL.

No. 42. Fig. 33.

No. 43. Fig. 34.



No. 44 Fig. 35.

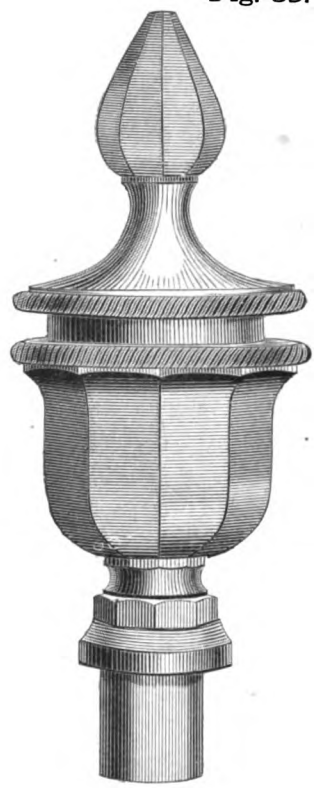


Fig. 36.

No. 45.

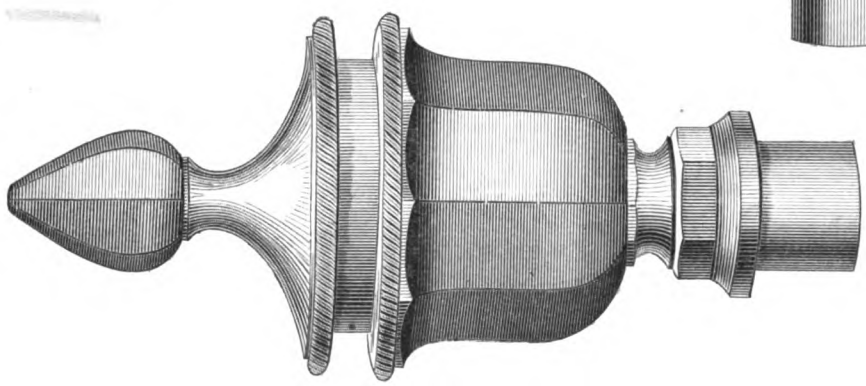
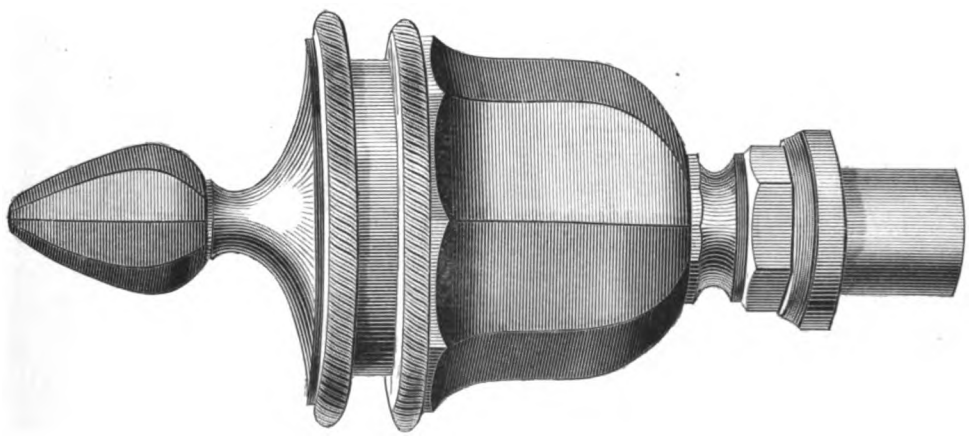


Fig. 37.

No. 46.



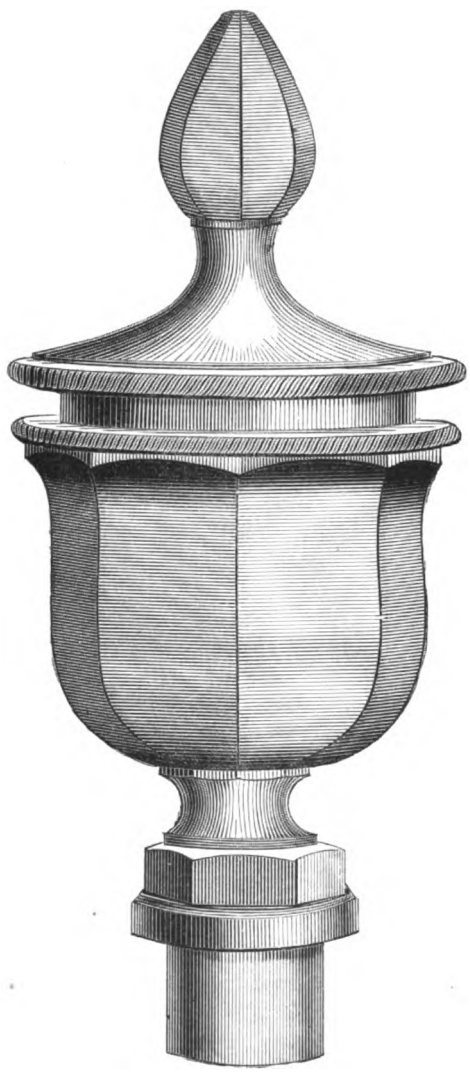
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

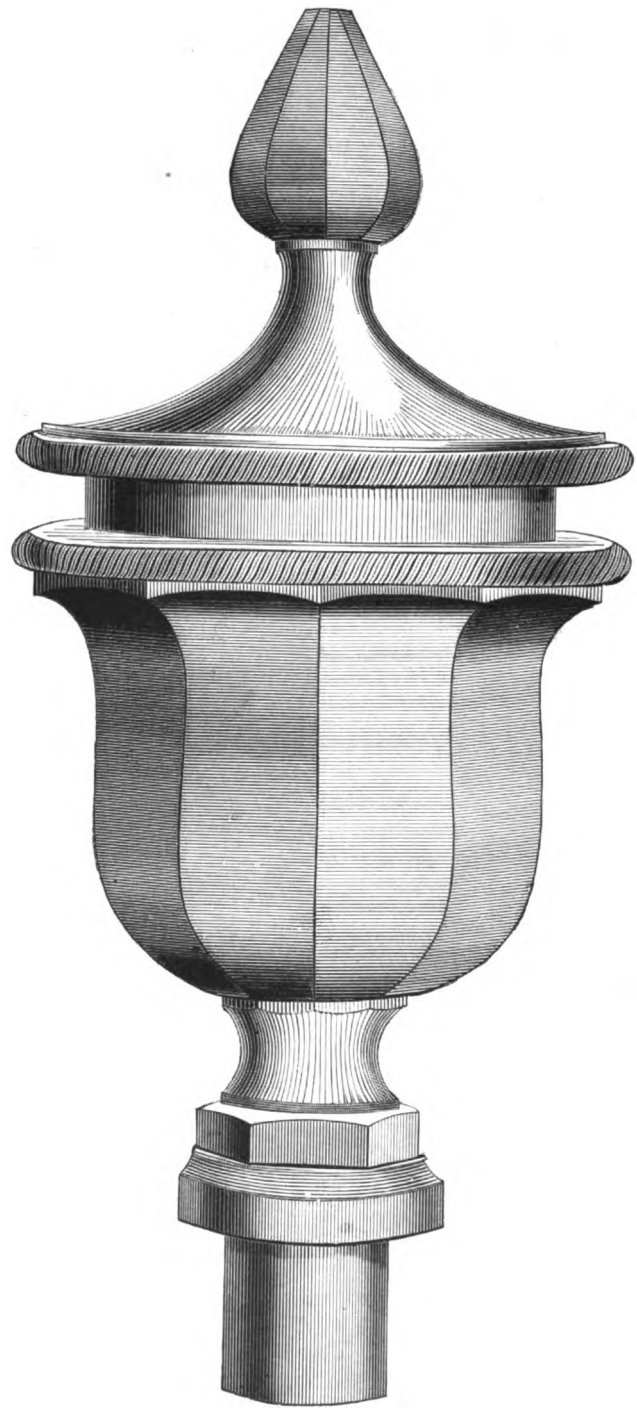
OCTAGON OIL CUPS, BEST STEAM METAL.

(Full Size.)

No. 47. Fig. 38.



No. 48 Fig. 39.



A. CARR, MANUFACTURER, NEW YORK.

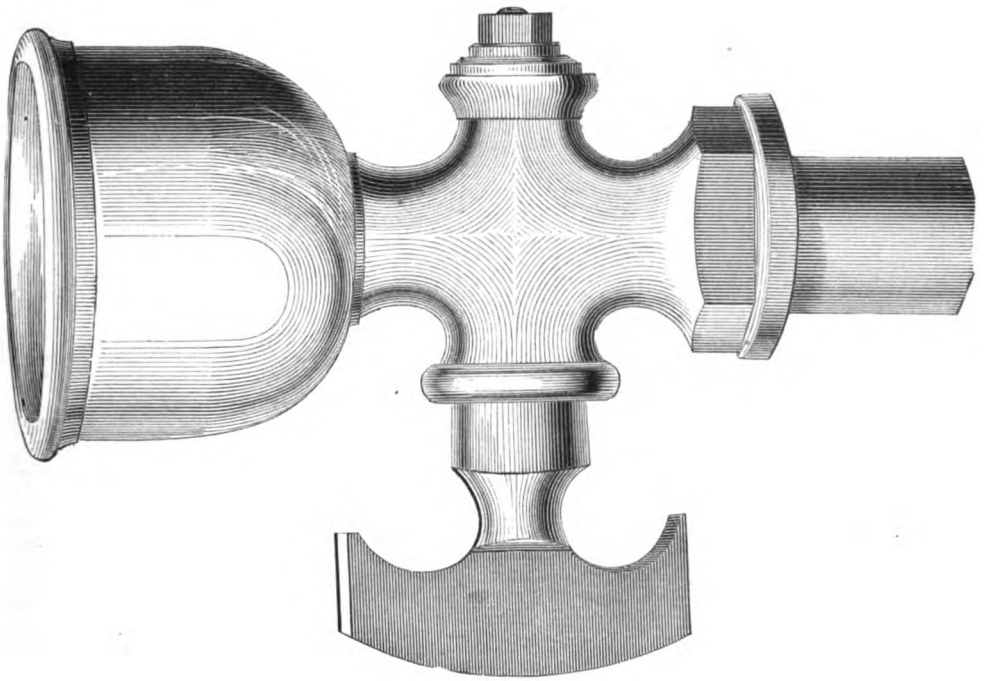
Digitized by Google

OPEN TOP TALLOW CUP,

BEST STEAM METAL.

(Full Size.)

No. 51. Fig. 40.

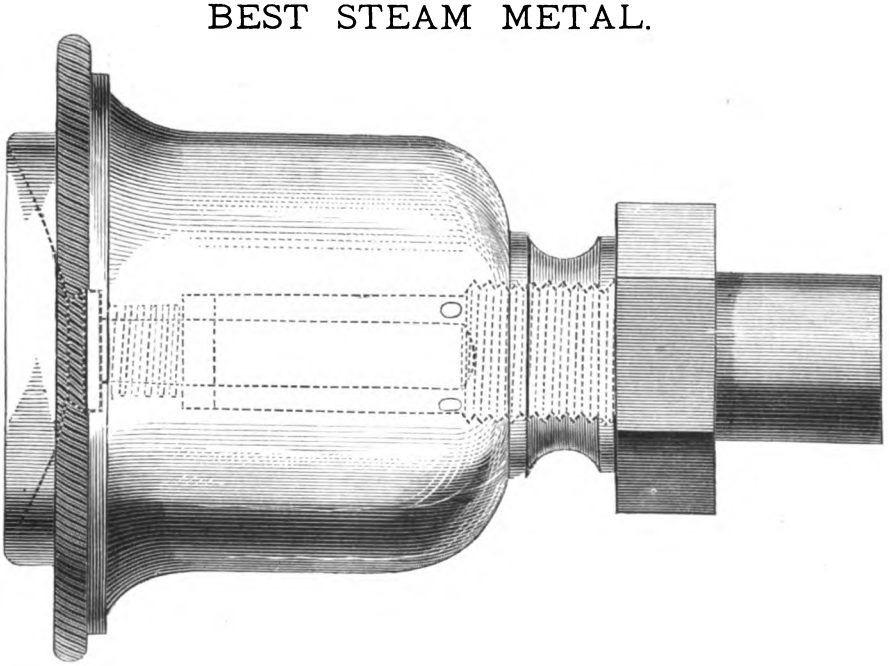


No. 52 Same Cup with Lever Handle.

Steam Chest Oil Cup, with Valve,

BEST STEAM METAL.

Fig. 41.

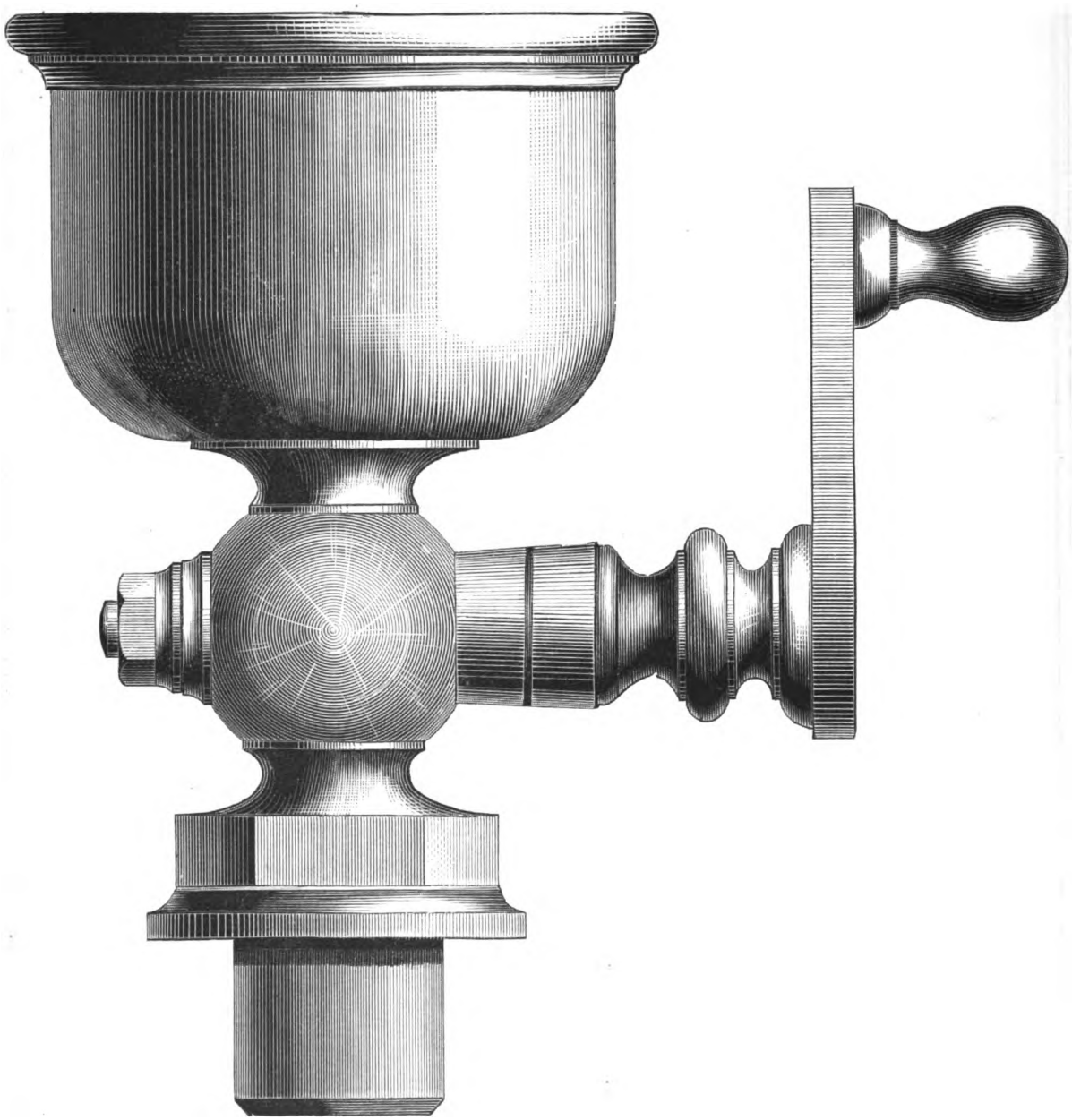


No. 53.

Digitized by Google

TALLOW CUP, BEST STEAM METAL.

No. 54. **Fig. 42.**



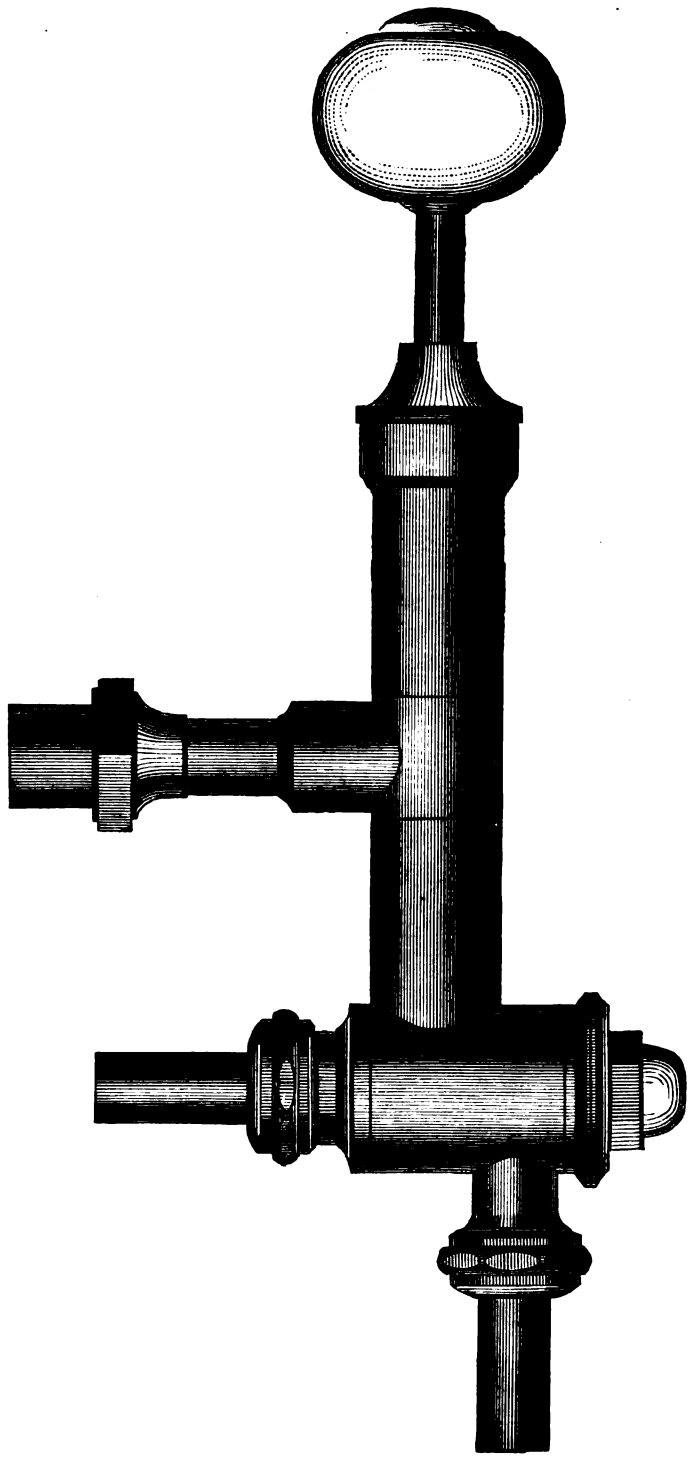
No. 55 Same style. Bowl, 4¼ inch diam., 3 inch deep; Shank, 1¼ inch diam.

Digitized by Google

OIL PUMP FOR STEAM CHEST,

BEST STEAM METAL.

Fig. 53.



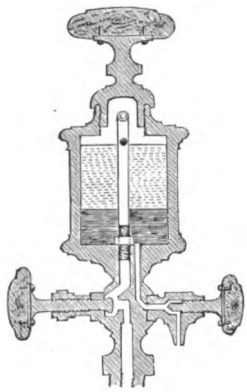
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

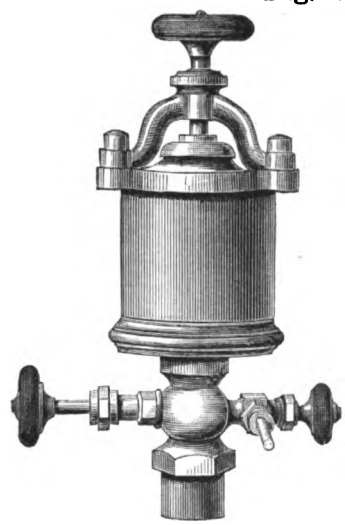
LOCOMOTIVE STEAM CHEST OIL CUPS,

NATHAN & DREYFUS PATENT.

Plain. **Fig. 46.**



Yoke. **Fig. 47.**



Plain, Nos. 1, 1½, 2, 2½, 3, 4, 5, 6, 7.
Yoke, 3, 4, 5, 6, 7.

LOCOMOTIVE OIL CUPS,

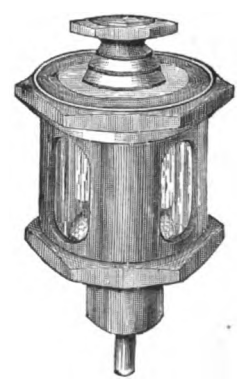
FOR CONNECTING RODS, SLIDES, ECCENTRICS, ETC.

A. **Fig. 48.**

	Capacity.	Diameter.	Height.
A,	⅝ oz.	1⅝ in.	2½ in.
B,	1½ "	2⅛ "	3½ "
C,	3 "	2⅞ "	4½ "
D,	8 "	3½ "	5¼ "

Fig. 49.

No. 42. **Fig. 50.**



SHELL CASED.

	Capacity.	Diameter.	Height.
No. 21,	⅛ oz.	1⅜ in.	2¼ in.
" 28,	¼ "	1½ "	2½ "
" 36,	1 "	2 "	3½ "
" 42,	1¼ "	2 "	4 "
" 60,	2½ "	2⅝ "	4¼ "
" 72,	2 "	3 "	4⅓ "
" 100,	1 qt.	10½ "	16½ "

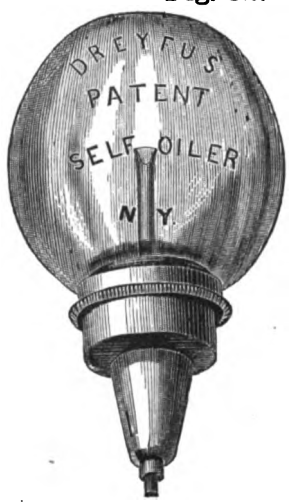
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

GLASS OIL CUPS FOR SHAFTING, &c.

No. 9. **Fig. 51.**

No. 10. **Fig. 52.**



	Capacity.	Diameter.	Height.
No. 0—For Cards, Looms, Lathes, or for small Journals,	1 oz.	2 in.	2⅛ in.
No. 00—For Card Cylinders, Strippers, and Compact connection,	¾ "	1½ "	2⅛ "
No. 3—Ditto, to fill from top,	¾ "	1⅝ "	2⅛ "
No. 9—For Shafting, Pickers, Looms and Fans,	1⅛ "	2⅛ "	3¼ "
No. 9—W. B.—For Compact Shafting or Connections,	1⅛ "	1¾ "	3⅛ "
No. 10—For Shafting, Pickers, Looms and Fans,	3⅛ "	2¼ "	4⅛ "
No. 10—W. B.—For Compact Shafting or Connections,	3 "	2 "	4⅛ "
No. 11—For Shafting, or Connections, where the Cups are required to be screwed in,	1⅛ "	2⅛ "	3¼ "
No. 12—	3⅛ "	2¼ "	4⅛ "
No. 13— To fill from top,	1⅛ "	2⅛ "	3¼ "
No. 13—W. B.—Ditto, ditto,	1⅛ "	1¾ "	3¼ "
No. 14—Ditto, ditto,	3⅛ "	2⅝ "	4⅛ "
No. 15—For Engines, or Connections, to be filled from Top,	3⅛ "	2⅝ "	4⅛ "
No. 18—For Upright Shafts, to order,	3⅛ "	2⅝ "	4⅛ "
No. 22—For Small Engines, Connections, or Lathes,	¾ "	1¼ "	2⅛ "
No. 24—For Engines,	2¼ "	2¼ "	3⅛ "
No. 25—For Heavy Bearings or Pillar Blocks,	8 "	3 "	4⅛ "

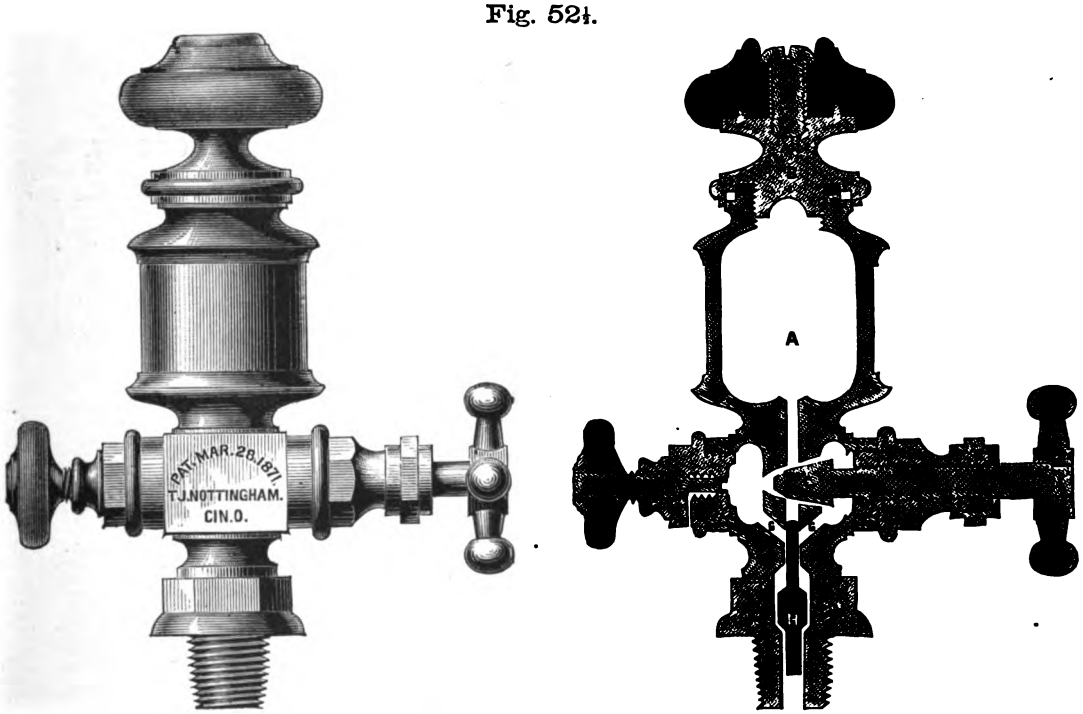
LOOSE PULLEY CUPS, WITH HOLLOW WIRES.

	Capacity.	Diameter.	Height.
No. 22,	¾ oz.	1¼ in.	2⅛ in.
No. 23,	½ "	⅞ "	1⅝ "

THE NOTTINGHAM LUBRICATOR,

WITH DRAIN COCK.

Fig. 52½.



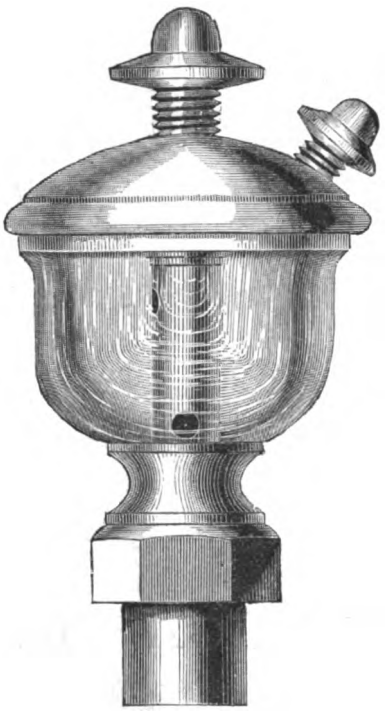
No.	00.	0.	1.	2.	3.	4.
Capacity,	¼ pint.	½ pint.	¾ pint.	¼ pint.	1 pint.	1½ pints.
Size, Diameter in inches,	1¾	2	2¼	2½	3⅛	4

Digitized by Google

BROUGHTON'S PATENT OIL CUPS.

STEAM CHEST CUP.

No. 1. **Fig. 43.**



No. 0—Cup, 1¼ inch diam., 2⅞ inch high.
" 2— " 2 " " 3¾ " "
" 3— " 2½ " " 4¼ " "

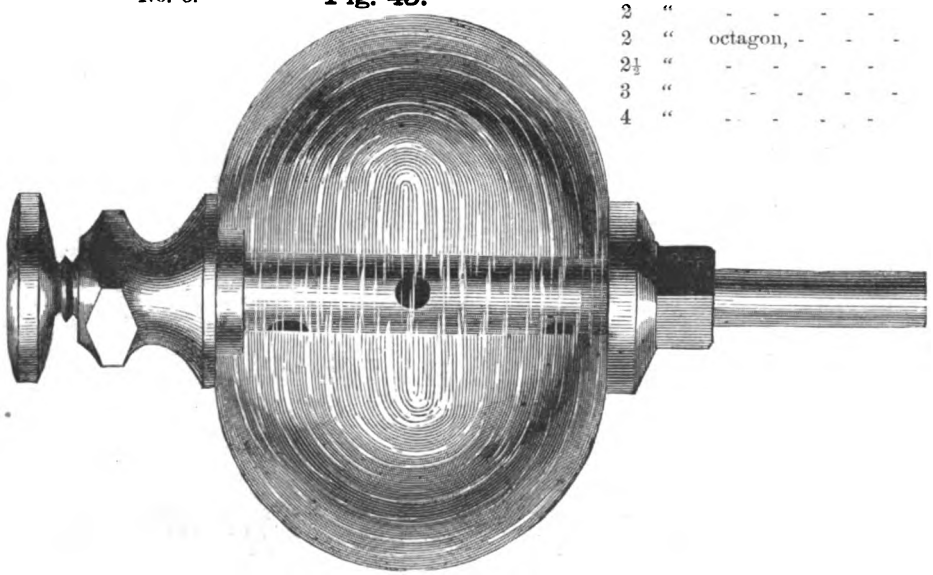
Fig. 44.

FOR TALLOW OR SUET.

Size.			Capacity.	
1½	inch.,	- - - - -	holds 2	oz.
2	"	- - - - -	" 3¼	"
2	"	octagon, - - -	" 4¼	"
2½	"	- - - - -	" 6½	"
3	"	- - - - -	" 11	"
4	"	- - - - -	" 22	"

GRADUATING OIL CUP.

No. 3. **Fig. 45.**



Nos. 1 and 2, Smaller Sizes.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

GAUGE COCKS, BEST STEAM METAL,

(Full Size.)

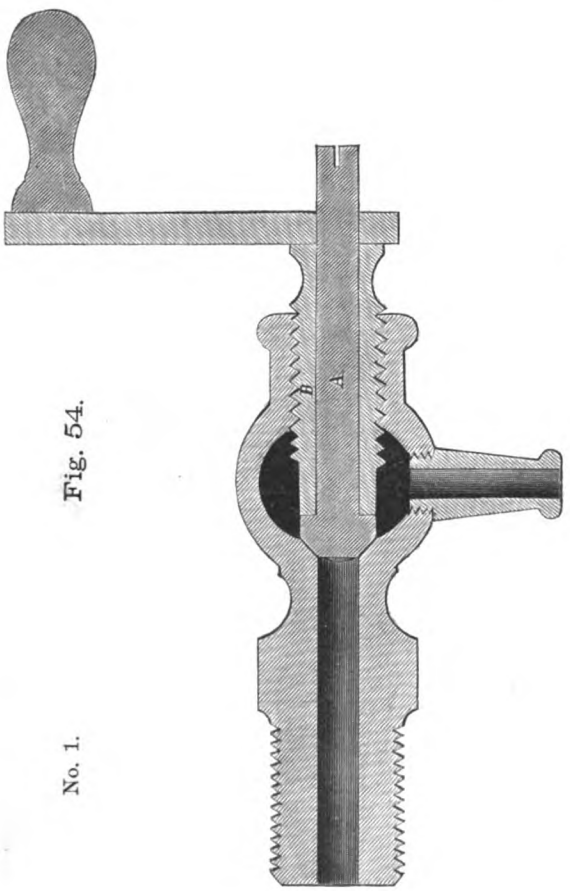


Fig. 54.

No. 1.

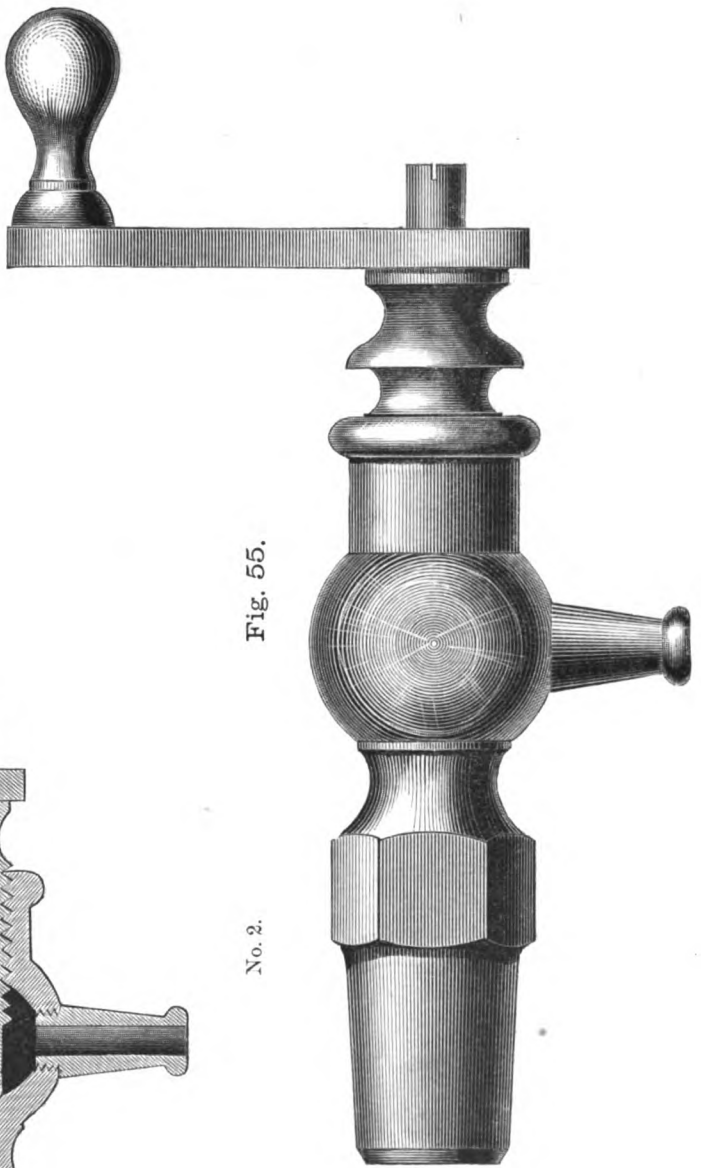


Fig. 55.

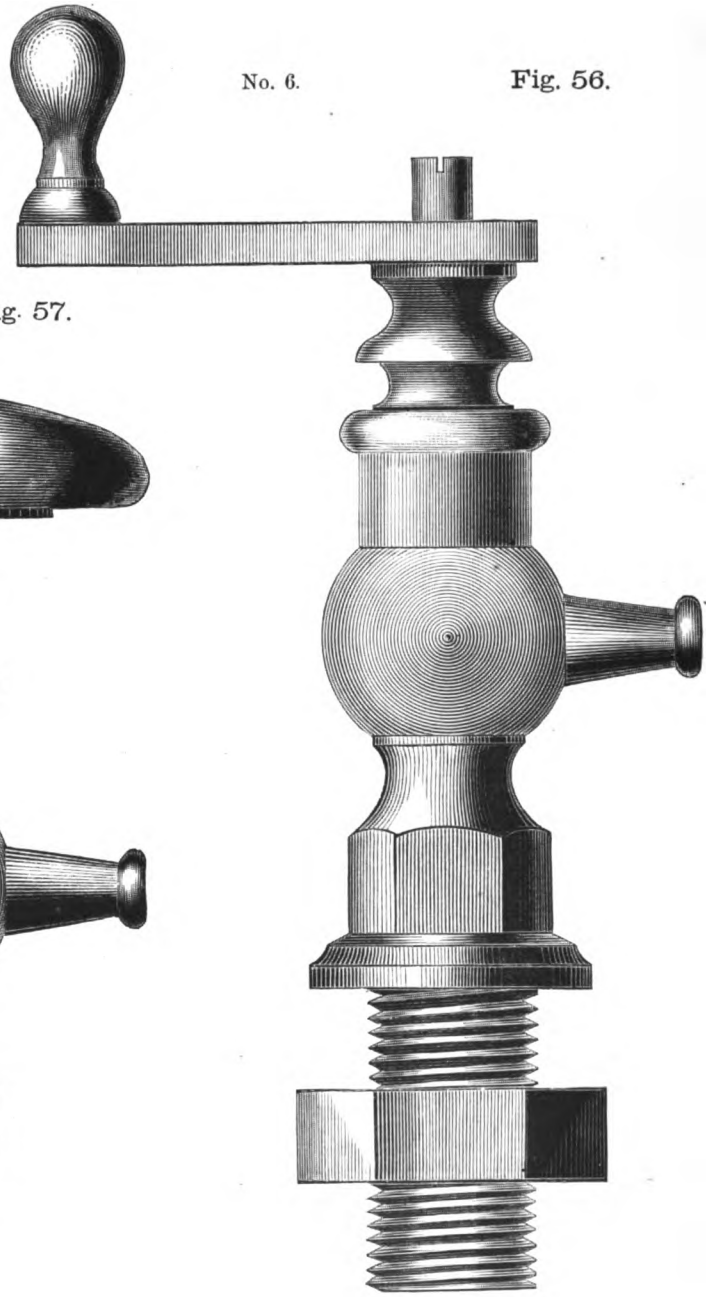
No. 2.

Digitized by Google

GAUGE COCKS, BEST STEAM METAL.

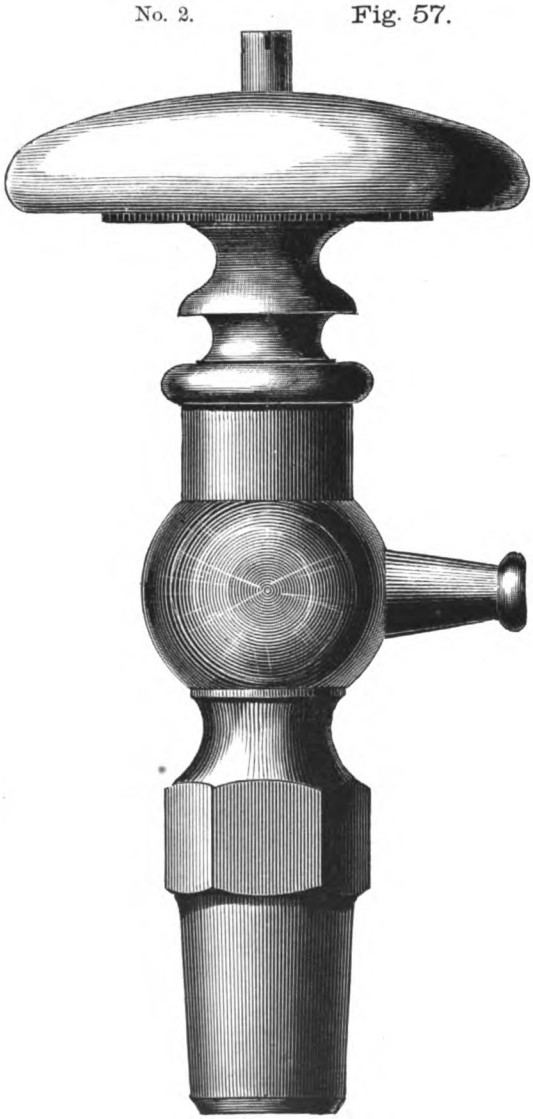
(Full Size.)

No. 6. Fig. 56.



WOOD HANDLE.

No. 2. Fig. 57.



No. 6, 1¼ inch Shank, Screw and Nut.
" 7, 2½ " " "
" 8, 3 " " "

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

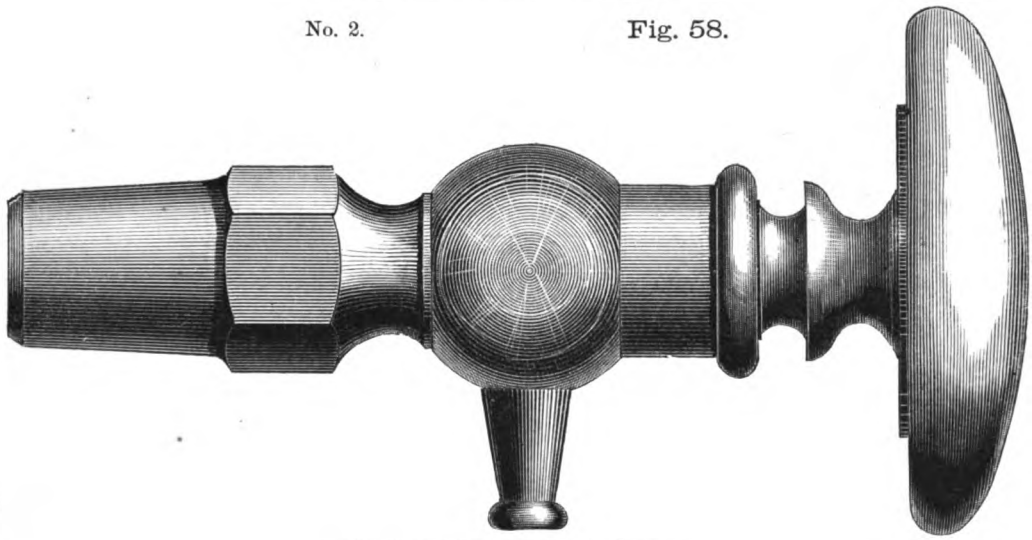
GAUGE COCKS, BEST STEAM METAL.

(Full Size)

WITH BABBIT METAL, OR RUBBER SEAT.

WOOD OR LEVER HANDLE.

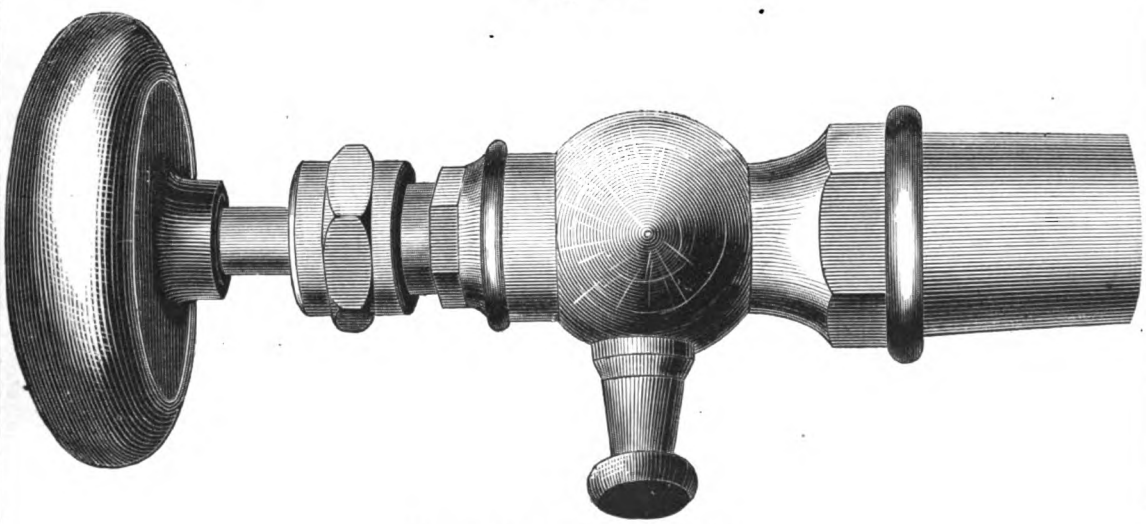
No. 2. Fig. 58.



No. 2 will Screw for ½ inch pipe.
" 3 " " ¾ "

WITH PACKING BOX.

Fig. 59.



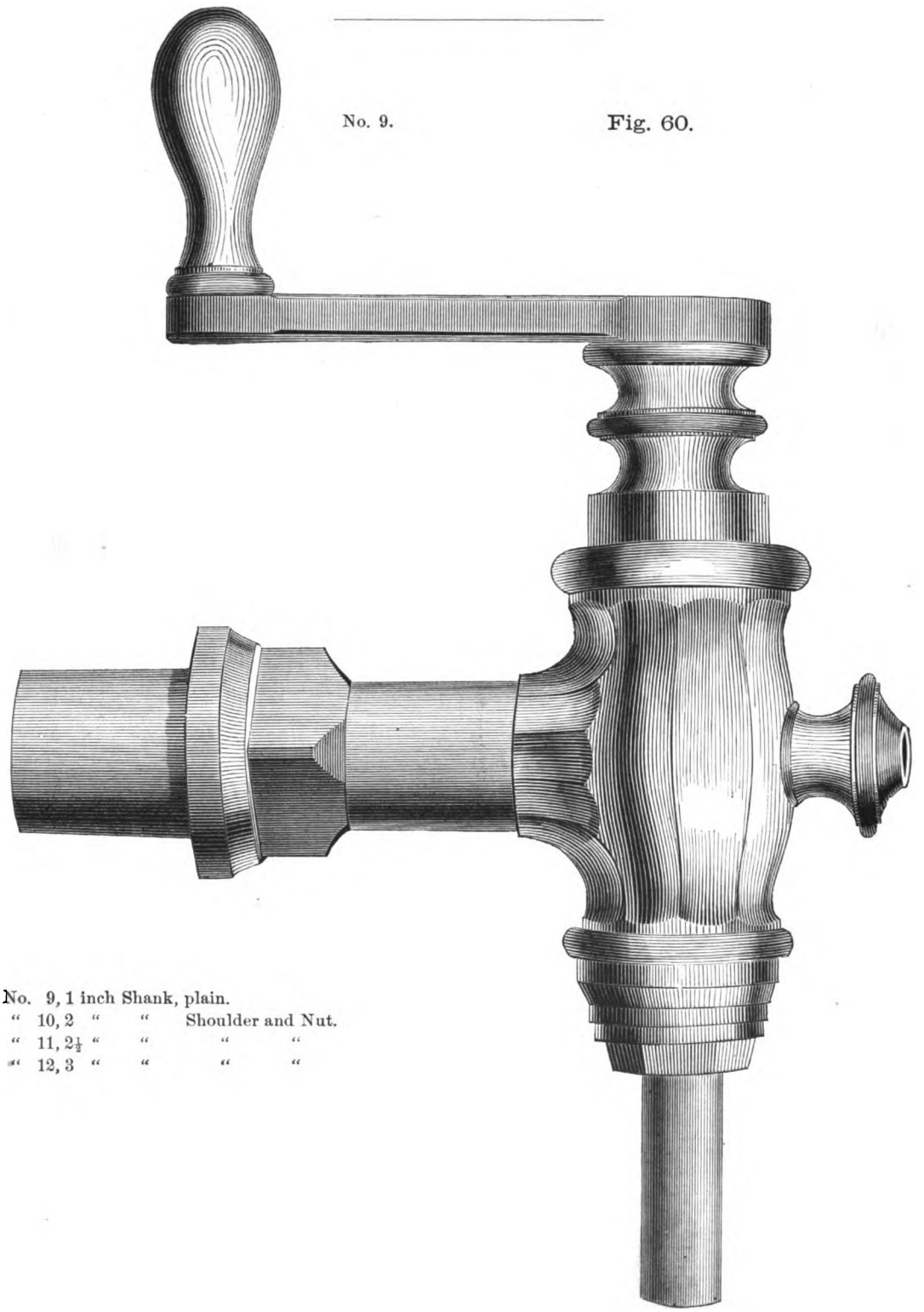
No. 2 will Screw for ½ inch pipe.
" 3 " " ¾ "

Digitized by Google

OCTAGON GAUGE COCK, BEST STEAM METAL.

(Full Size.)

No. 9. Fig. 60.



No. 9, 1 inch Shank, plain.
" 10, 2 " " Shoulder and Nut.
" 11, 2½ " " " "
" 12, 3 " " " "

Digitized by Google

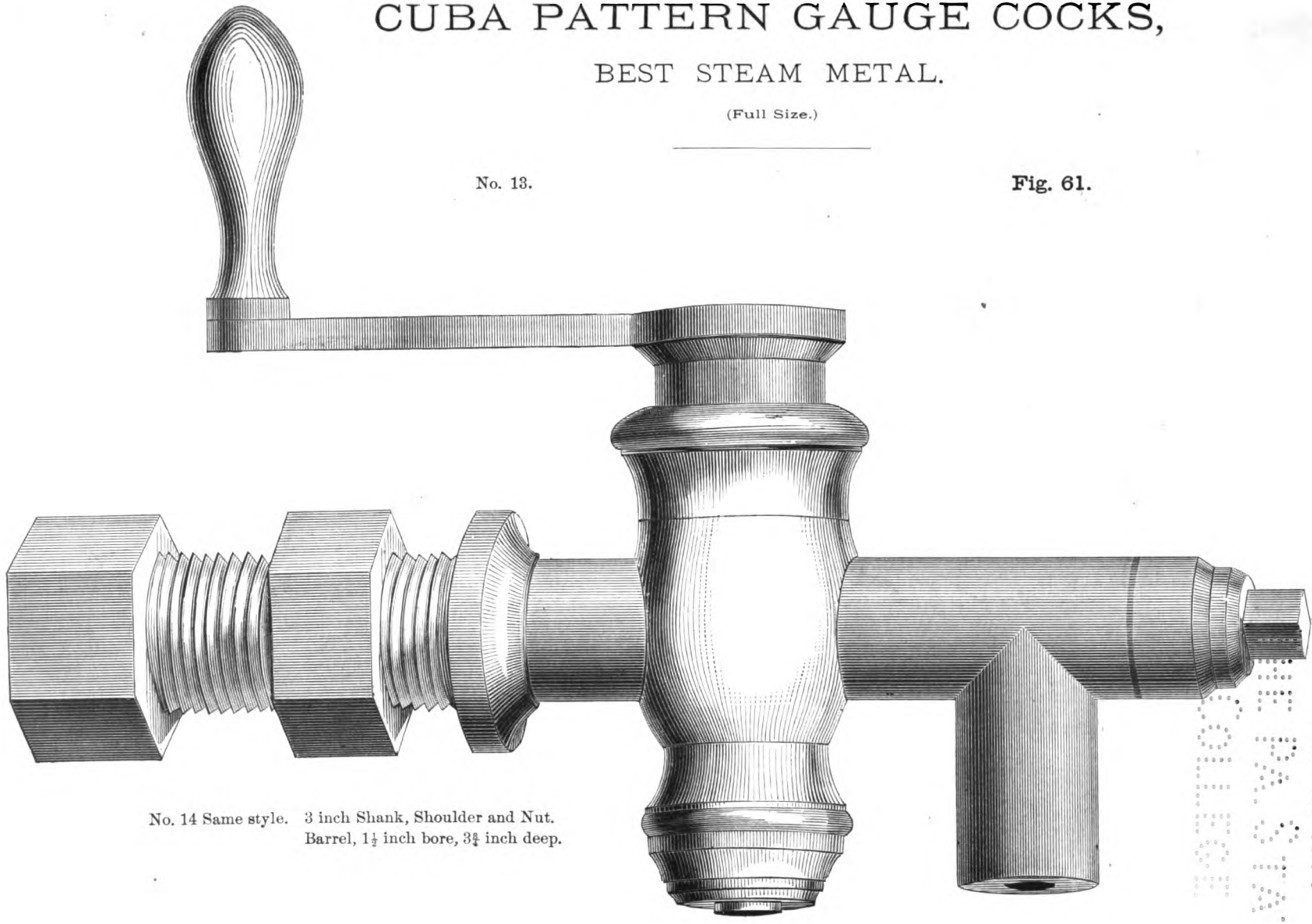
A. CARR, MANUFACTURER, NEW YORK.

CUBA PATTERN GAUGE COCKS,

BEST STEAM METAL.

(Full Size.)

No. 13. **Fig. 61.**



No. 14 Same style. 3 inch Shank, Shoulder and Nut.
Barrel, 1½ inch bore, 3¾ inch deep.

Digitized by Google

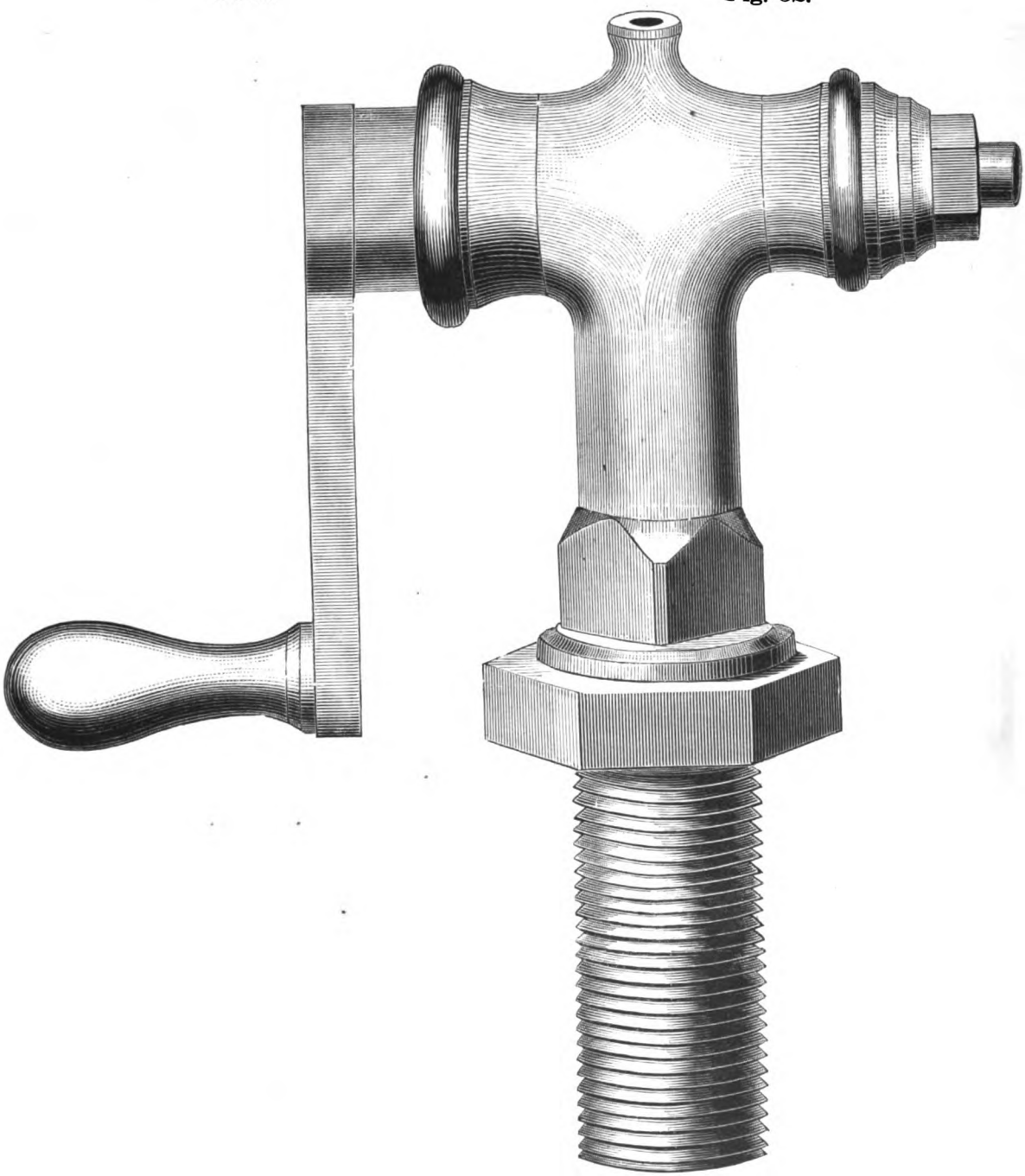
LIBRARY

GAUGE COCKS, BEST STEAM METAL.

SCREW SHANK, SHOULDER AND NUT.

(Full Size.)

No. 15. Fig. 62.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

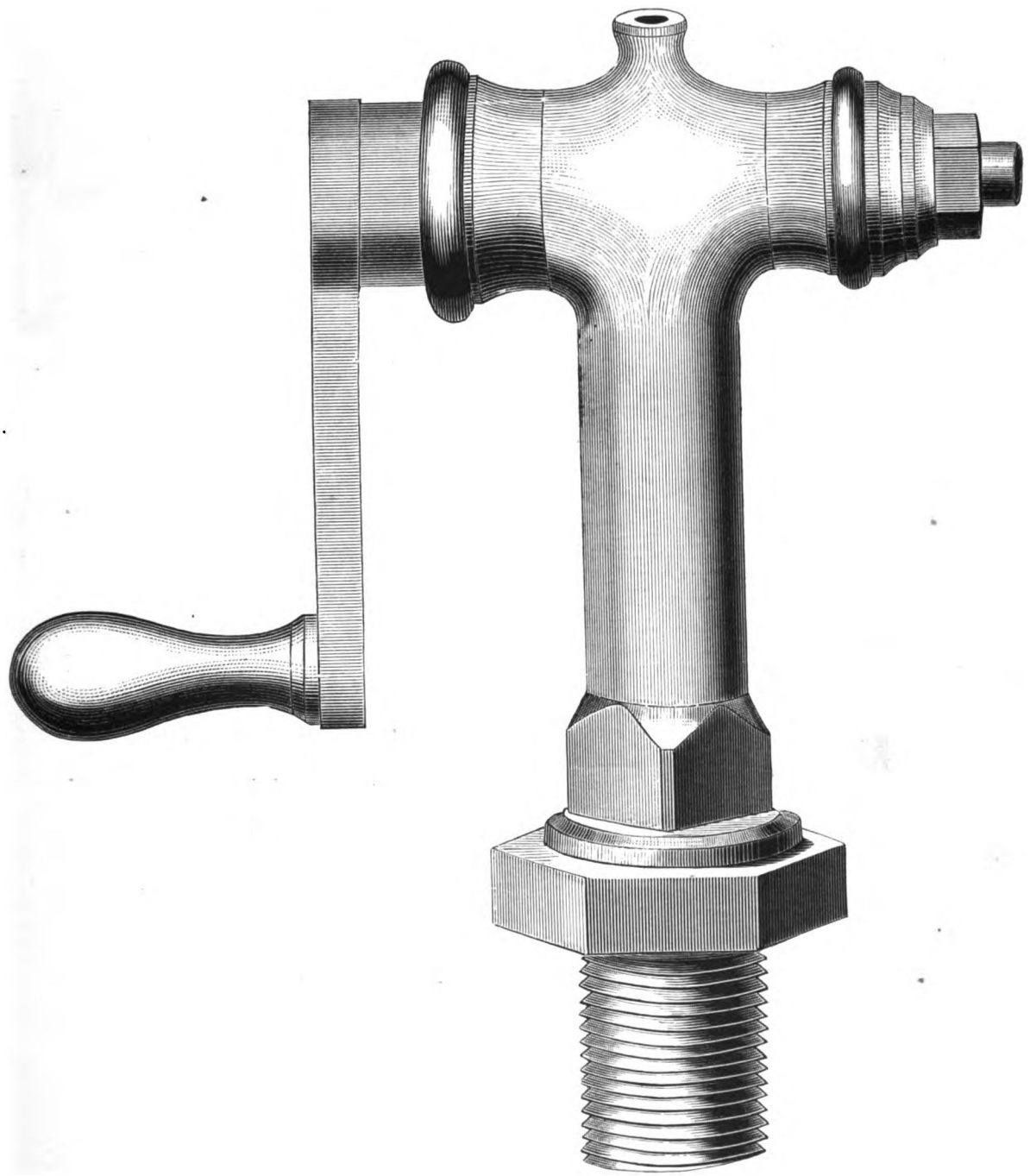
GAUGE COCK, BEST STEAM METAL.

SCREW SHANK, SHOULDER & NUT.

(Full Size.)

No. 16.

Fig. 63.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

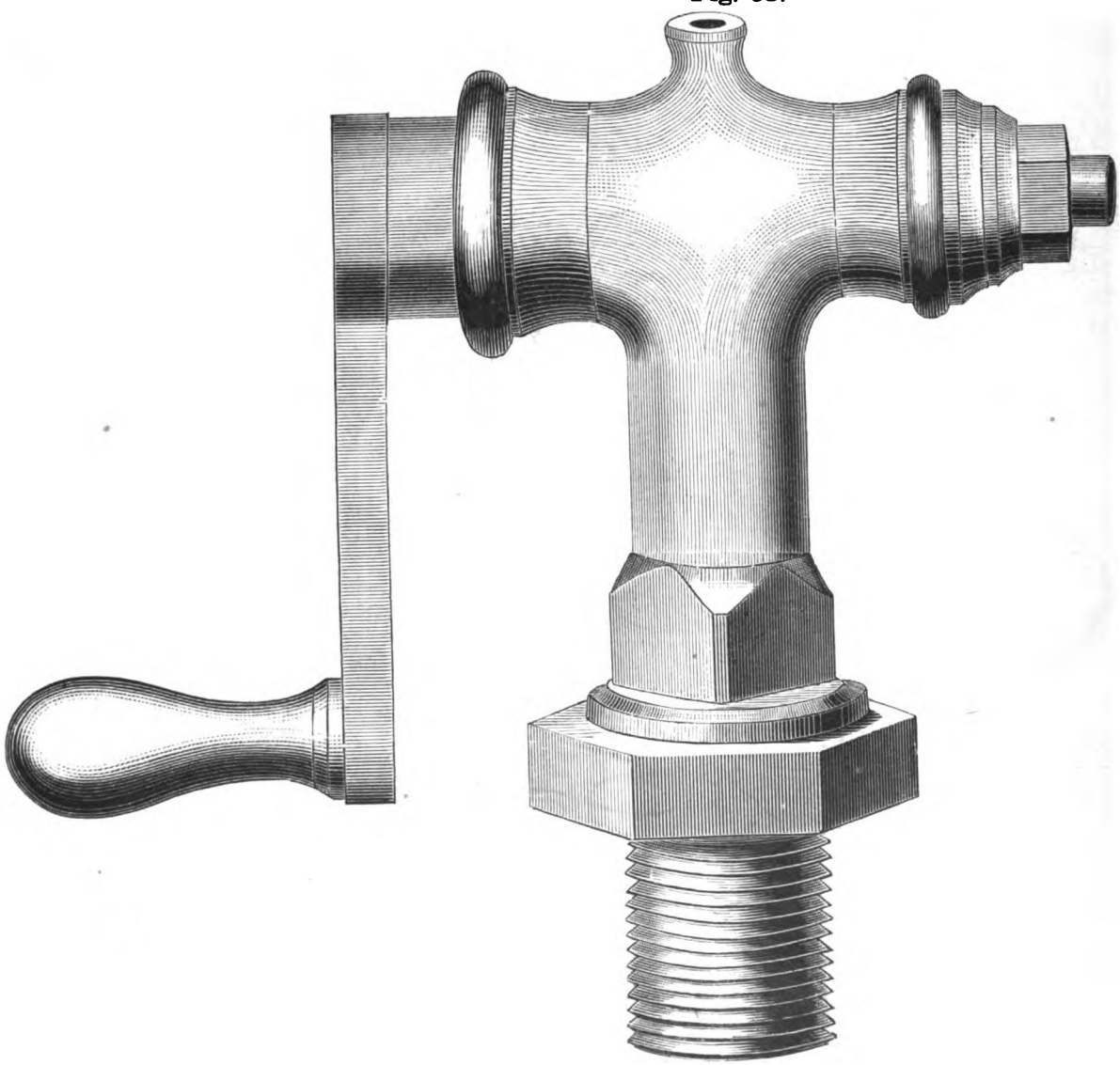
GAUGE COCK, BEST STEAM METAL.

SCREW SHANK, SHOULDER AND NUT.

(Full Size.)

No. 17.

Fig. 65.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

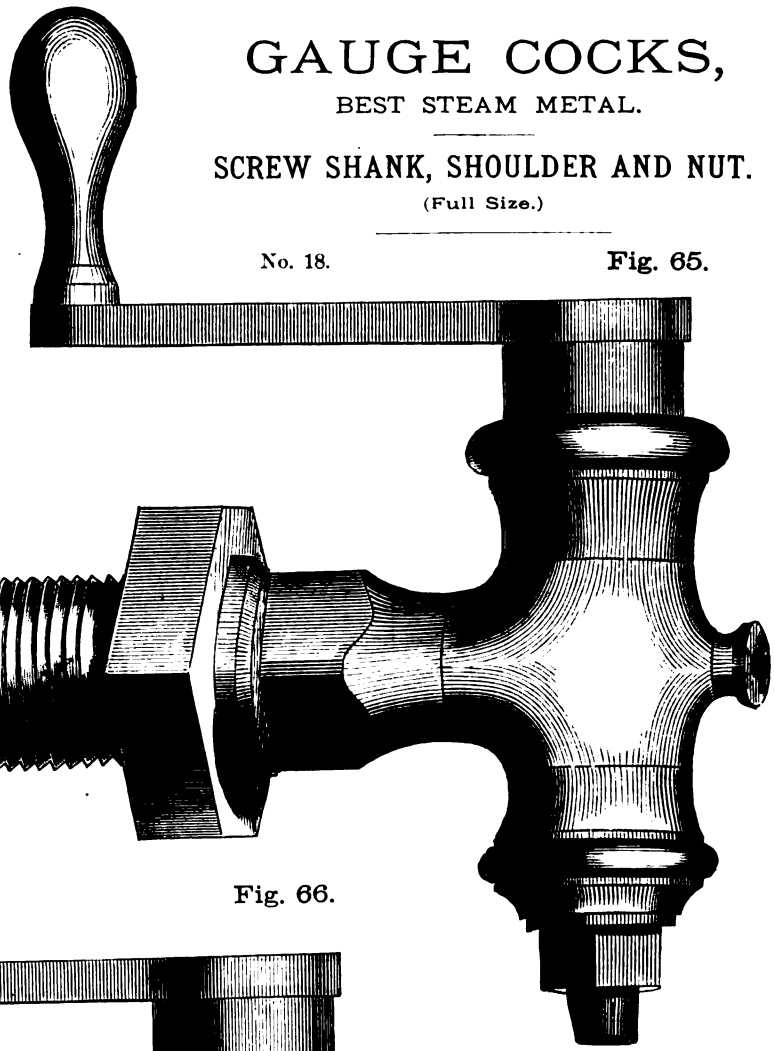
GAUGE COCKS,

BEST STEAM METAL.

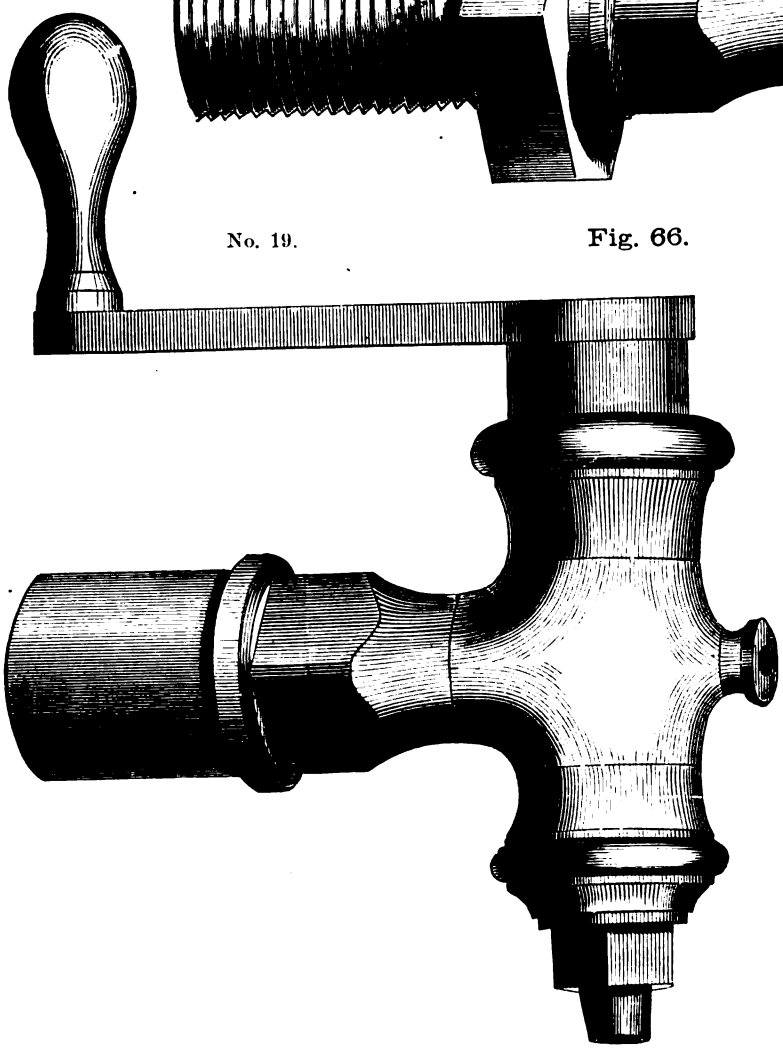
SCREW SHANK, SHOULDER AND NUT.

(Full Size.)

No. 18. **Fig. 65.**



No. 19. **Fig. 66.**



A. CARR, MANUFACTURER, NEW YORK.

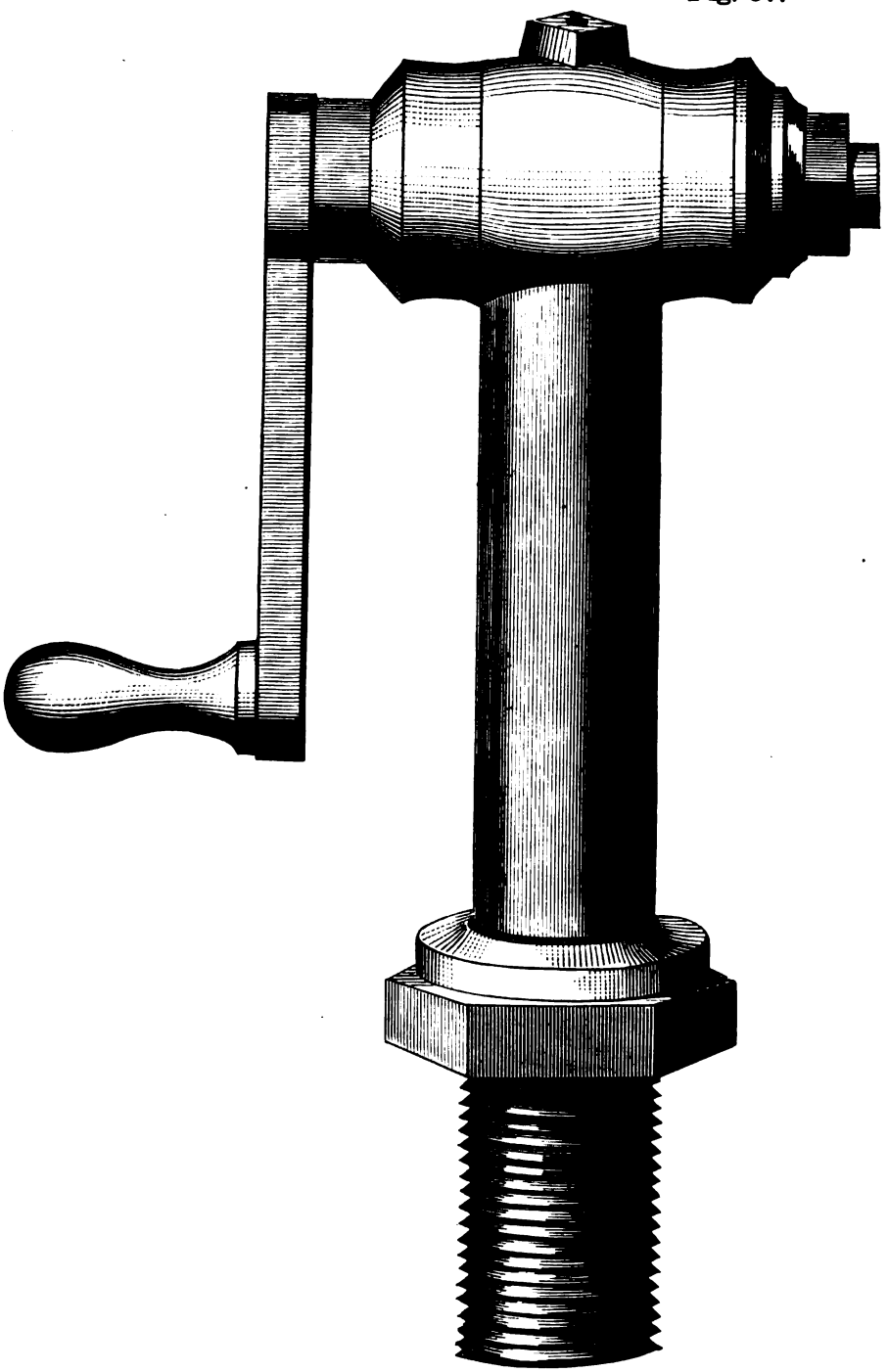
Digitized by Google

GAUGE COCKS, BEST STEAM METAL,

SCREW SHANK, SHOULDER AND NUT.

(Full Size.)

No. 20. **Fig. 67.**



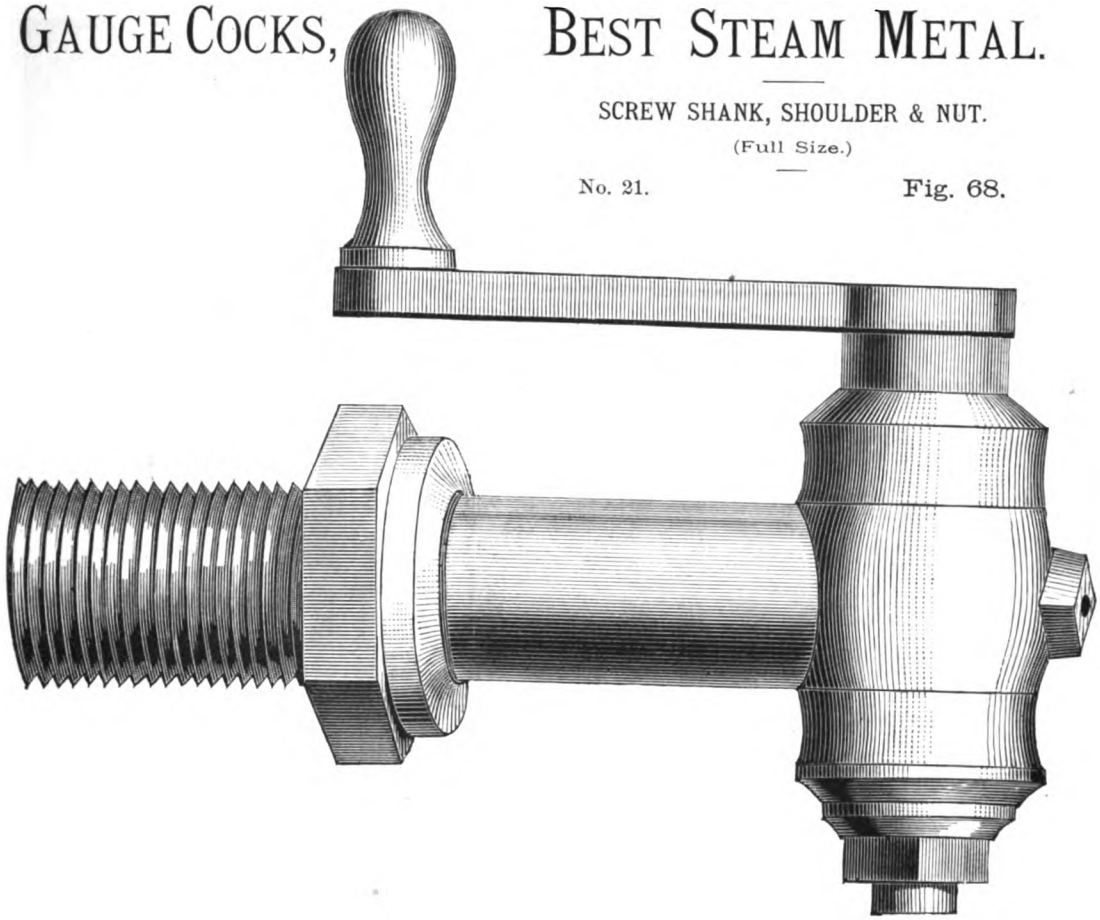
Digitized by Google

GAUGE COCKS, BEST STEAM METAL.

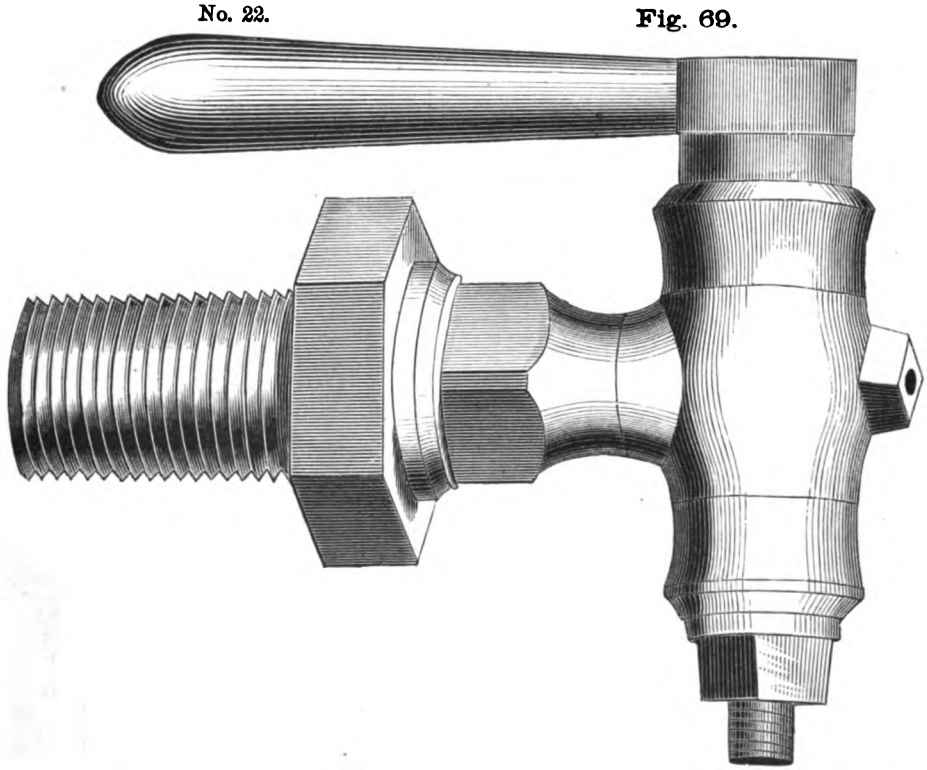
SCREW SHANK, SHOULDER & NUT.

(Full Size.)

No. 21. Fig. 68.



No. 22. Fig. 69.



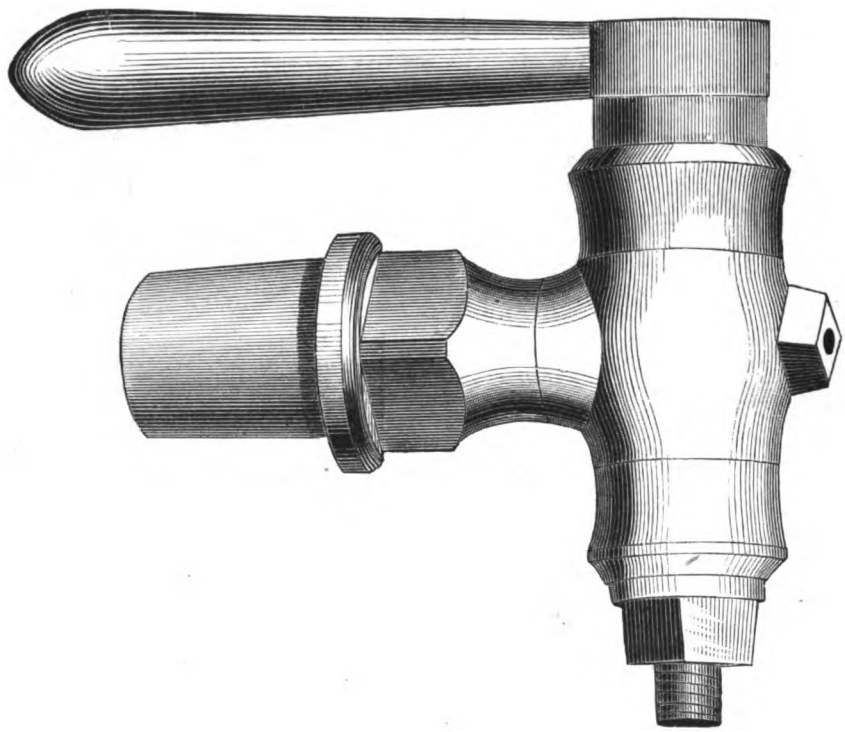
Digitized by Google

GAUGE COCKS, BEST STEAM METAL,

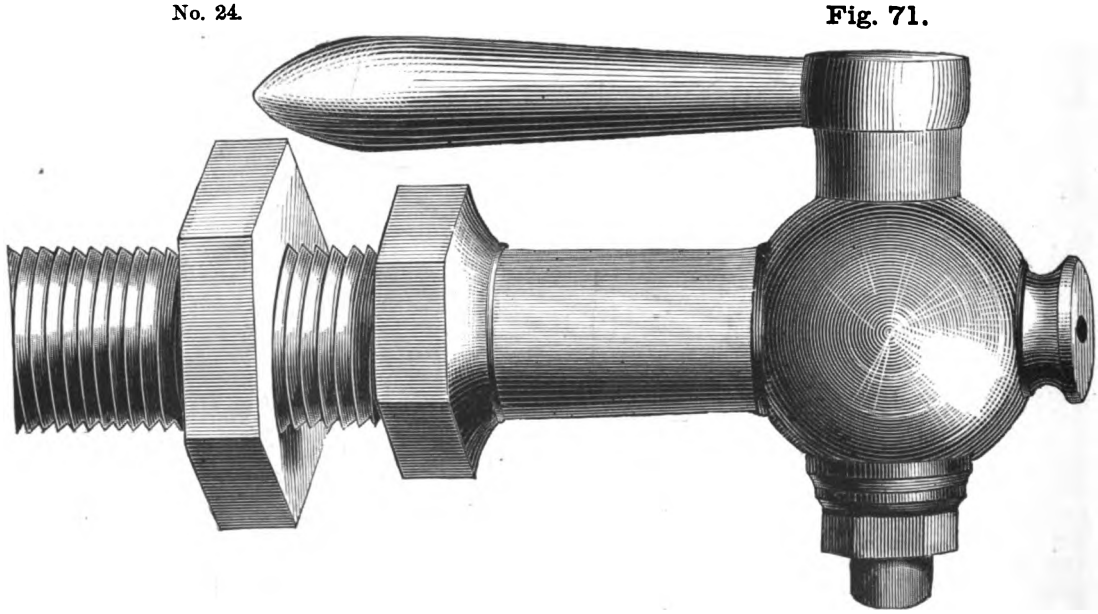
PLAIN, AND SCREW SHANK, SHOULDER AND NUT.

(Full Size.)

No. 23. Fig. 70.



No. 24. Fig. 71.



A. CARR, MANUFACTURER, NEW YORK.

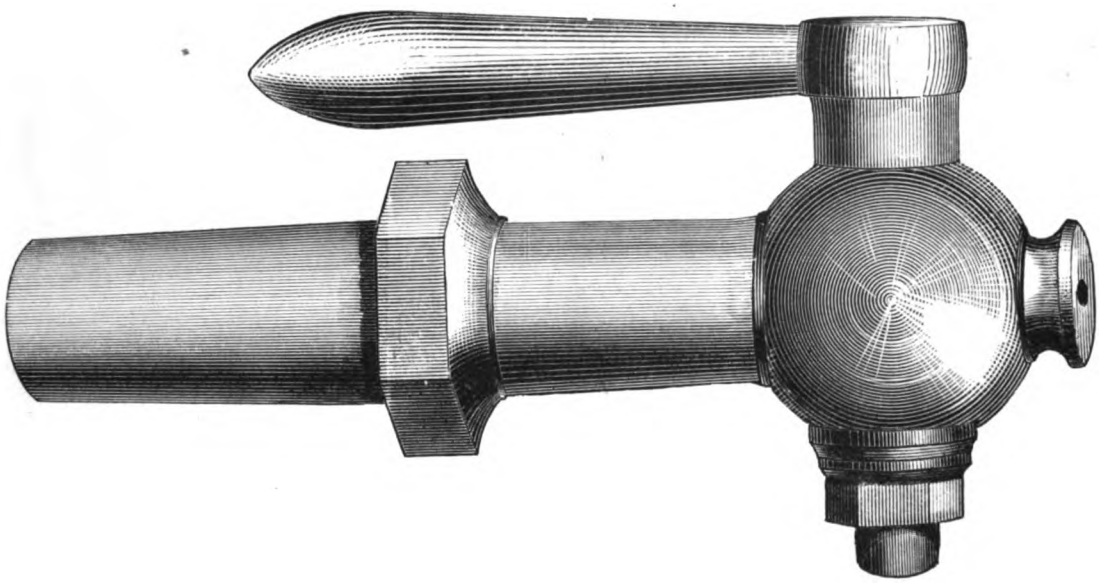
Digitized by Google

GAUGE COCKS, BEST STEAM METAL.

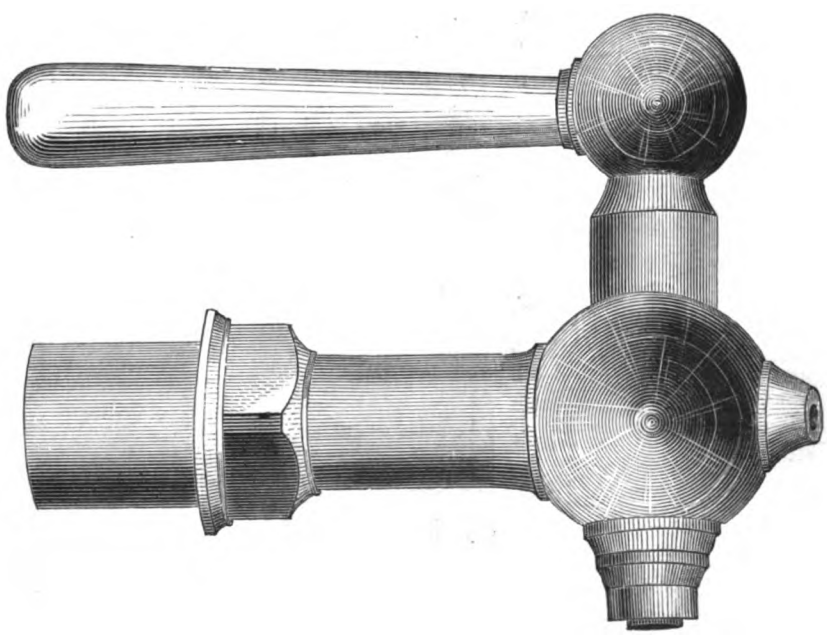
PLAIN SHANK.

(Full Size.)

No. 25. Fig. 72.



No. 26. Fig. 73.



Digitized by Google

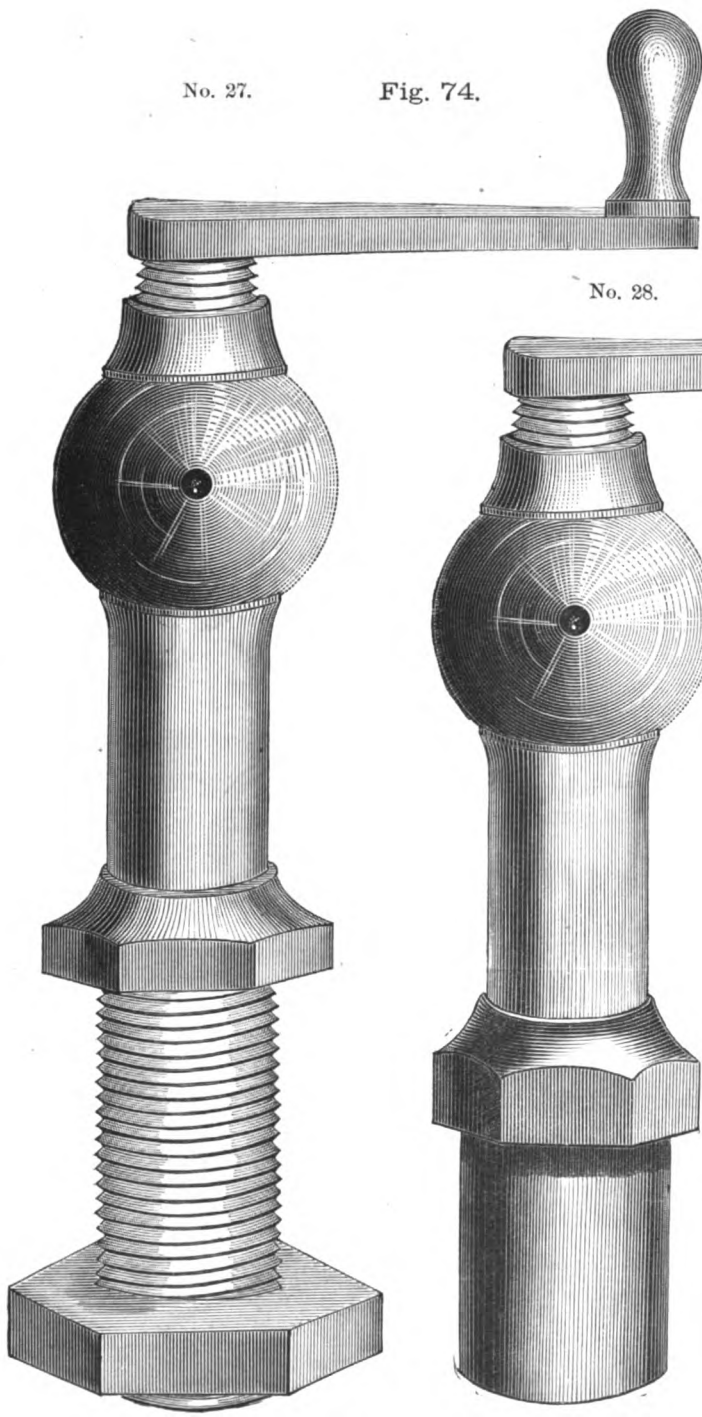
COMPRESSION GAUGE COCKS,

BEST STEAM METAL.

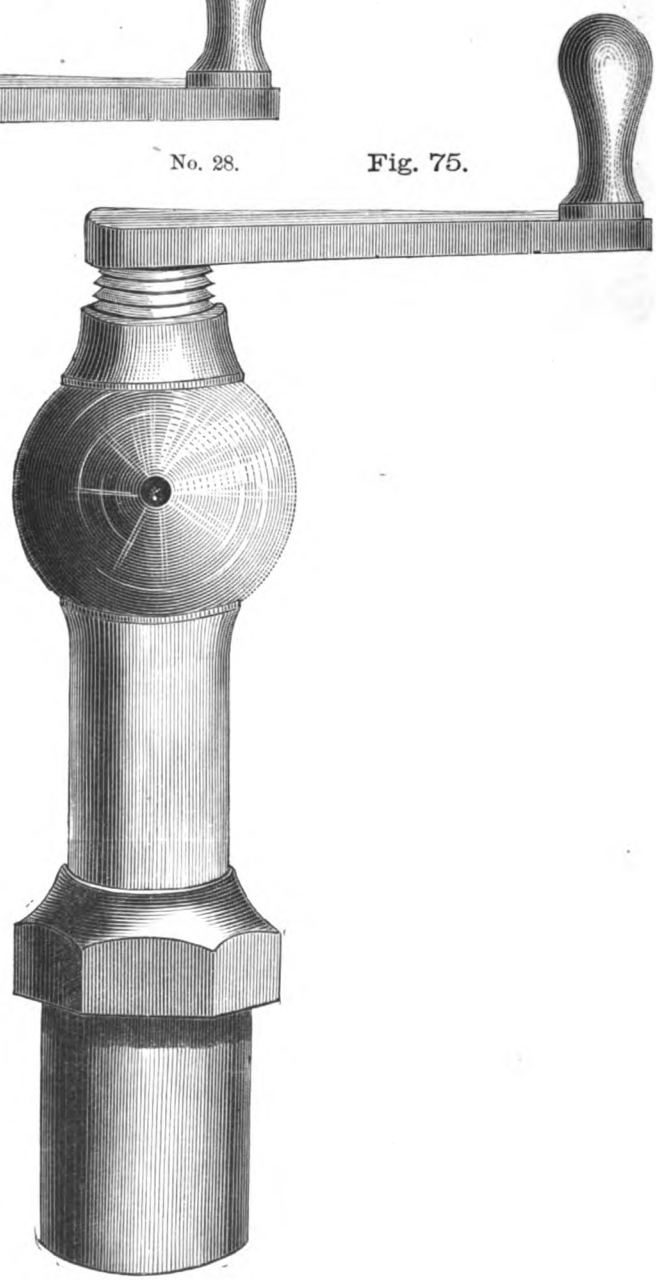
SCREW SHANK, SHOULDER AND NUT, AND PLAIN.

(Full Size.)

No. 27. Fig. 74.



No. 28. Fig. 75.



A. CARR, MANUFACTURER, NEW YORK.

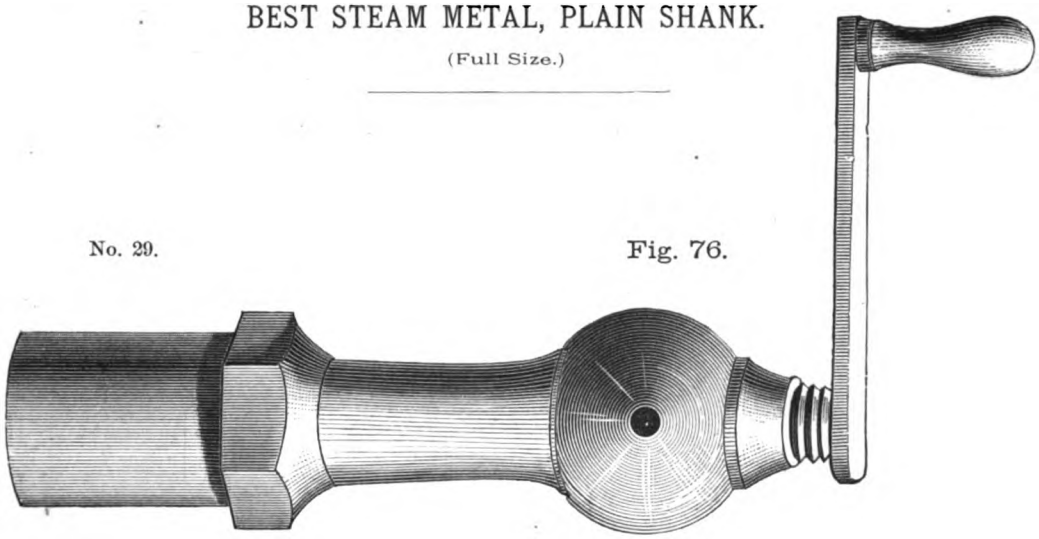
Digitized by Google

COMPRESSION GAUGE COCKS,

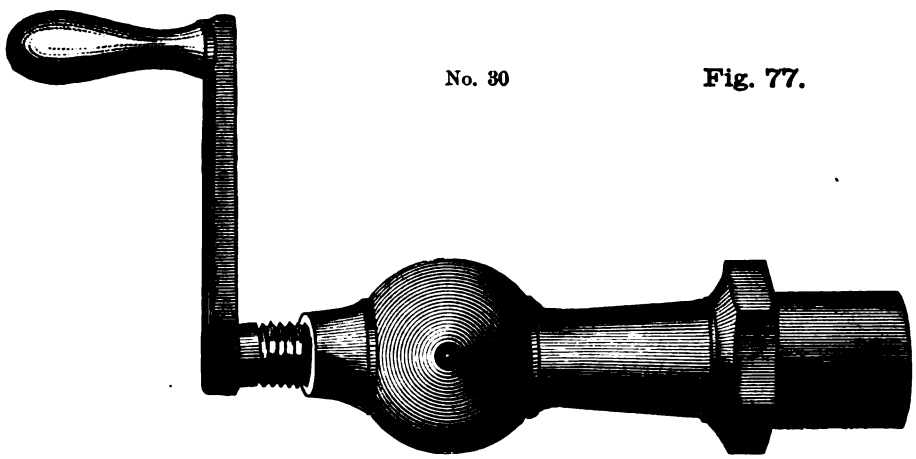
BEST STEAM METAL, PLAIN SHANK.

(Full Size.)

No. 29. Fig. 76.

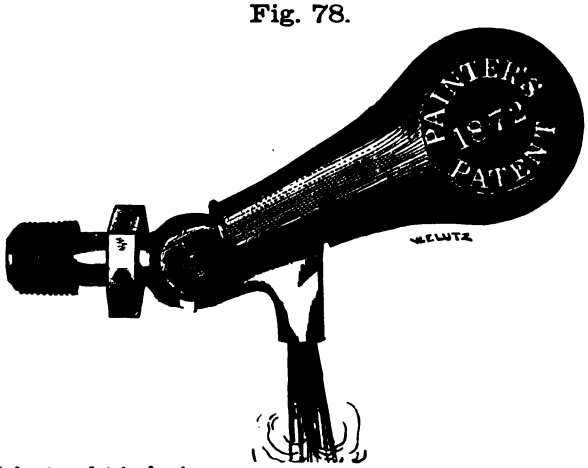


No. 30 **Fig. 77.**



PAYNTER'S PATENT GAUGE COCK.

Fig. 78.



Screwed for ¼ and ⅜ inch pipe.

Digitized by Google

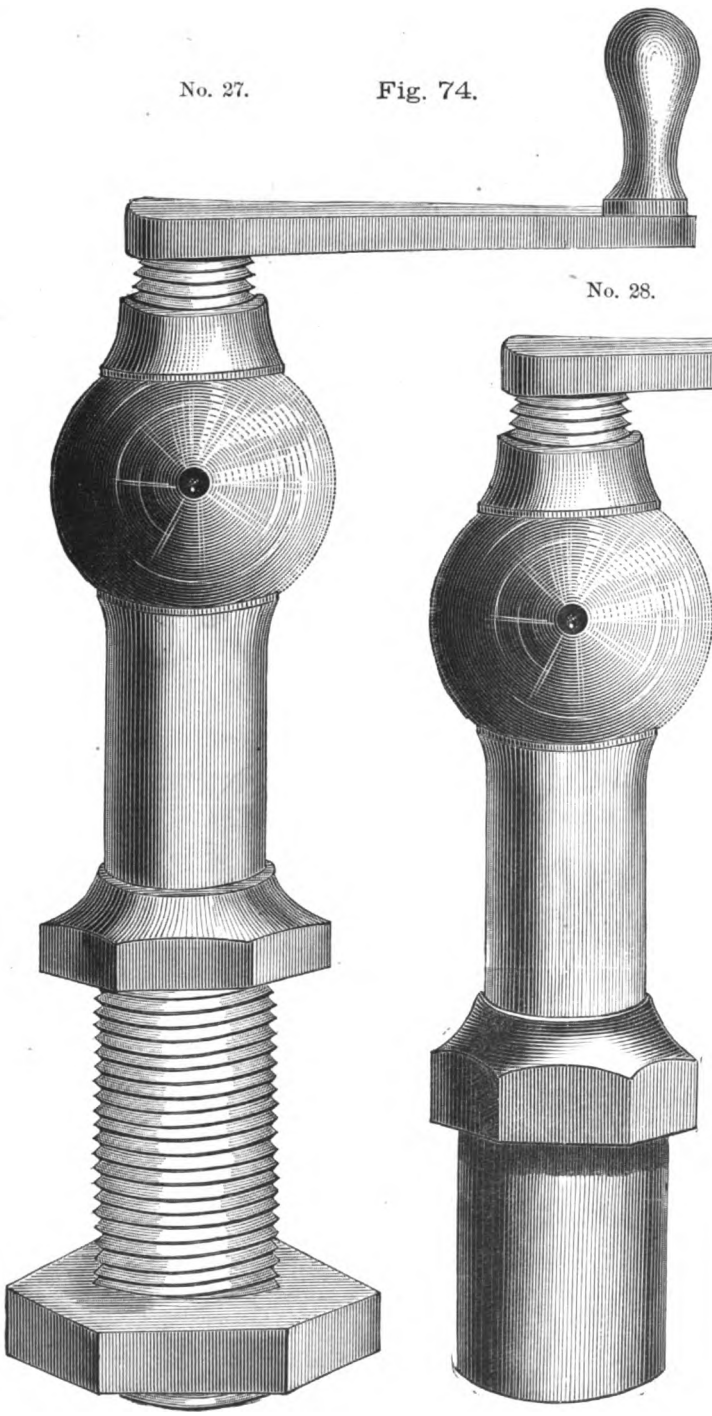
COMPRESSION GAUGE COCKS,

BEST STEAM METAL.

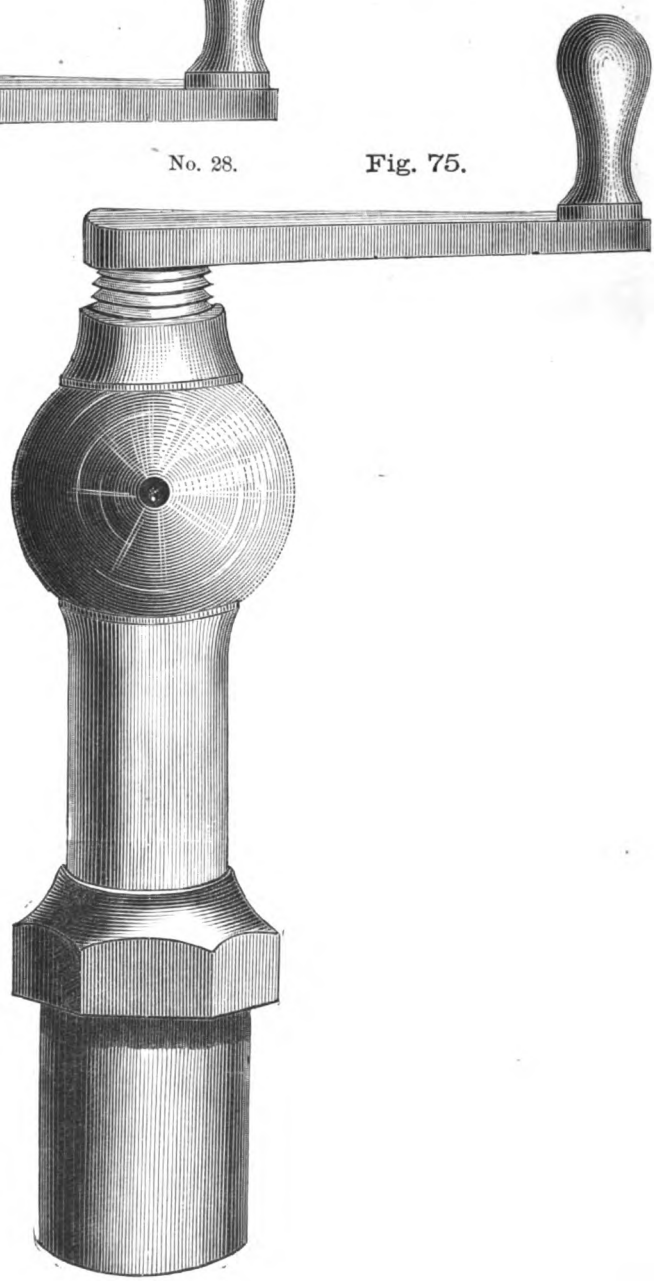
SCREW SHANK, SHOULDER AND NUT, AND PLAIN.

(Full Size.)

No. 27. Fig. 74.



No. 28. Fig. 75.



A. CARR, MANUFACTURER, NEW YORK.

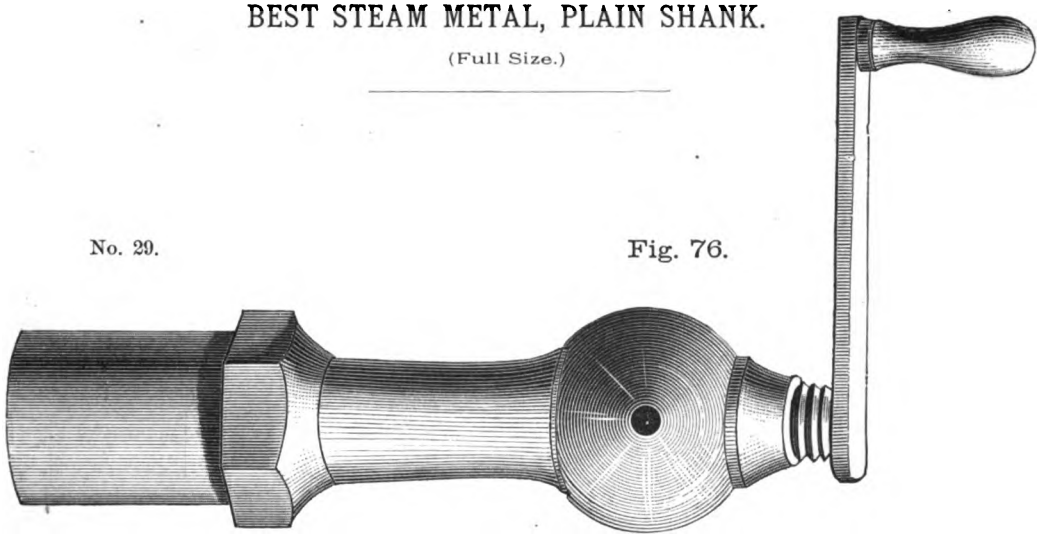
Digitized by Google

COMPRESSION GAUGE COCKS,

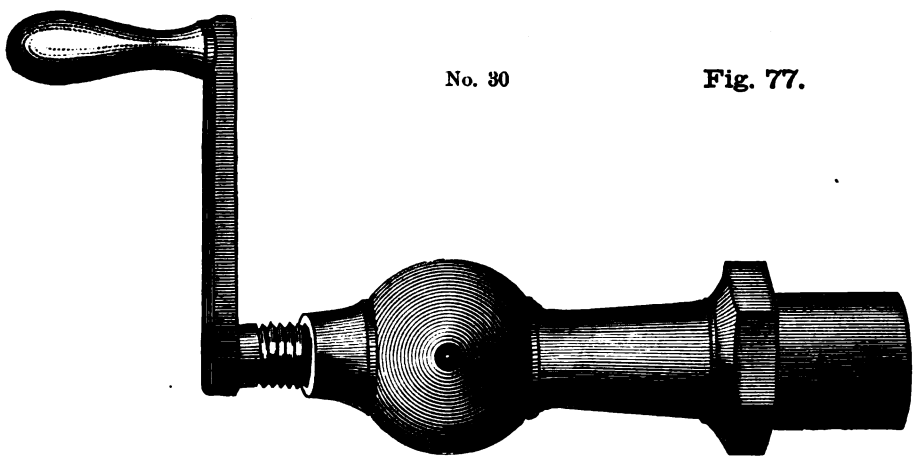
BEST STEAM METAL, PLAIN SHANK.

(Full Size.)

No. 29. Fig. 76.

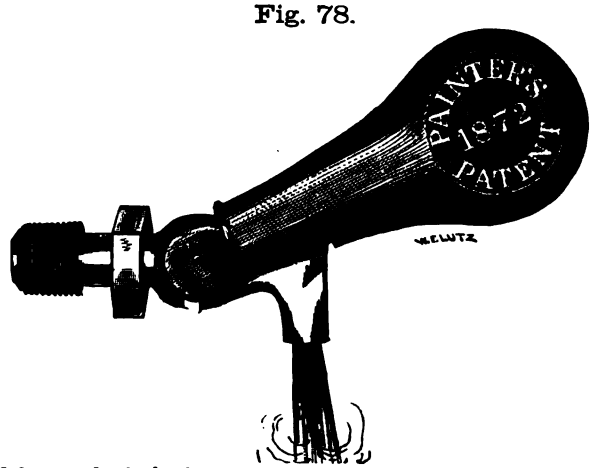


No. 30 Fig. 77.



PAYNTER'S PATENT GAUGE COCK.

Fig. 78.



Screwed for ½ and ¾ inch pipe.

Digitized by Google

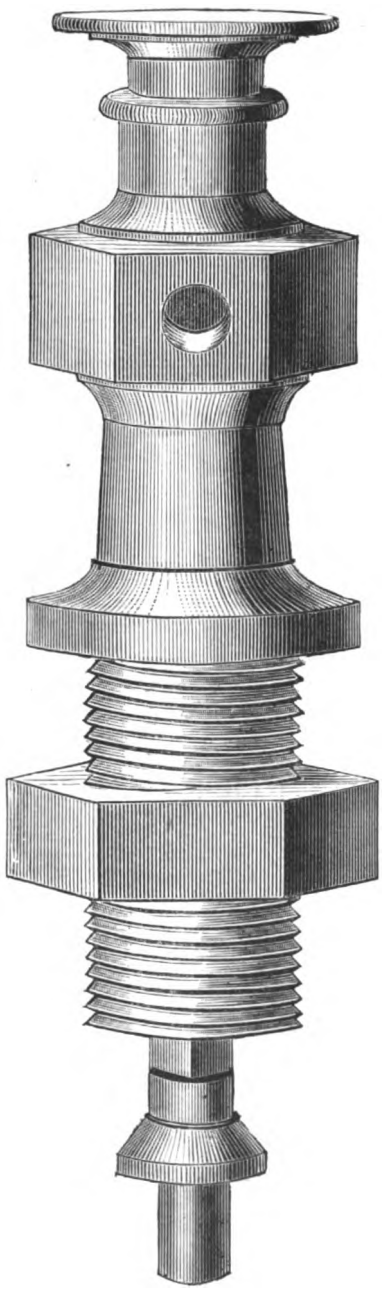
MISSISSIPPI GAUGE COCKS,

BEST STEAM METAL.

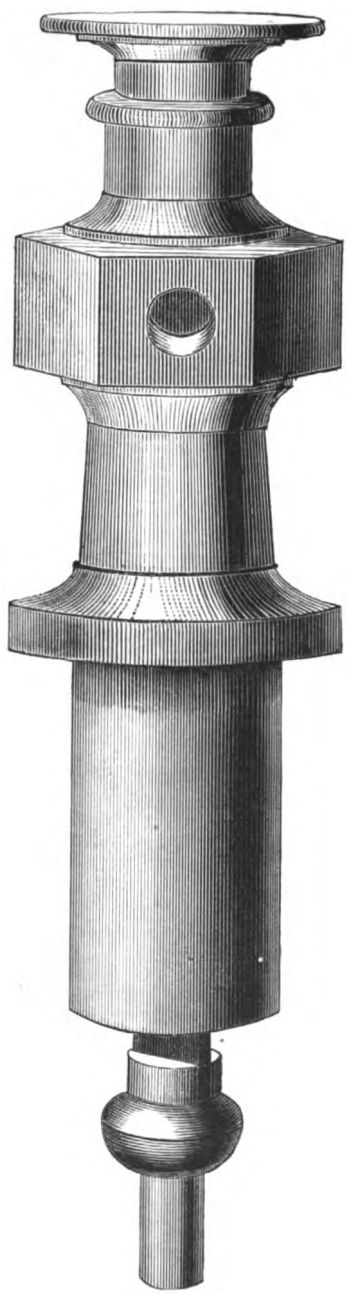
PLAIN, AND SCREW SHANK, SHOULDER AND NUT.

(Full Size.)

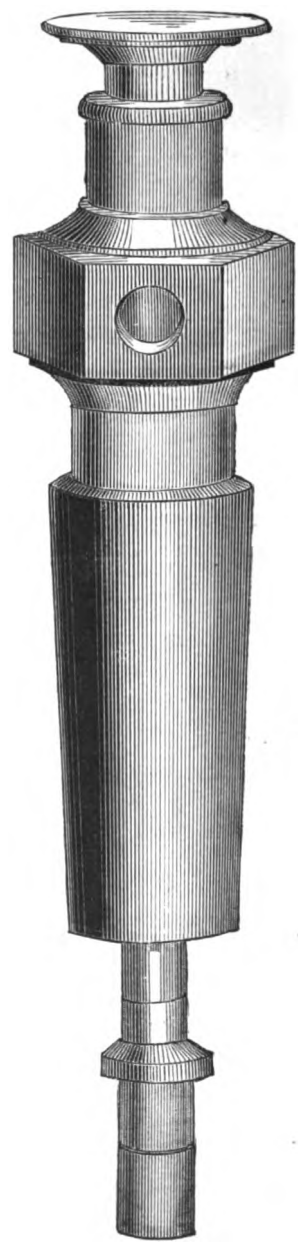
No. 33. **Fig. 79.**



No. 35. **Fig. 80.**



No. 40. **Fig. 81.**



A. CARR, MANUFACTURER, NEW YORK.

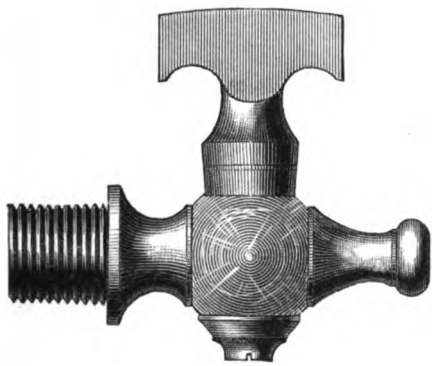
Digitized by Google

AIR COCKS, BEST STEAM METAL.

FINISHED.

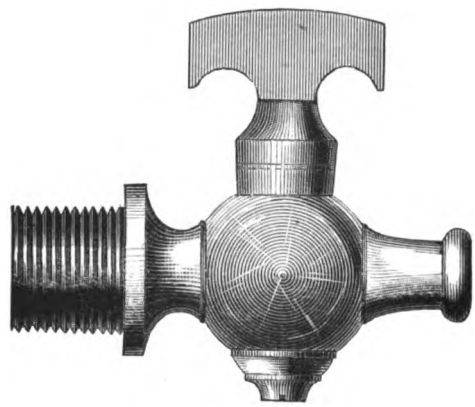
(Full Size.)

No. 1. **Fig. 82.**



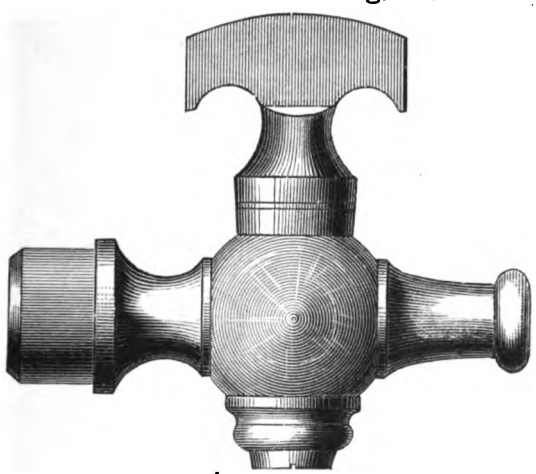
Screwed for $\frac{1}{8}$ and $\frac{1}{4}$ inch pipe.

No. 2. **Fig. 83.**



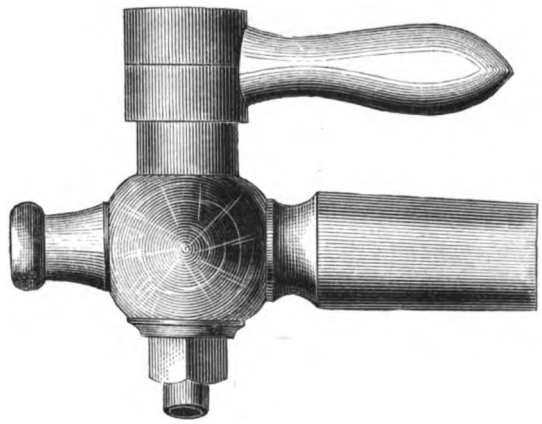
Screwed for $\frac{1}{4}$ inch pipe.

No. 3. **Fig. 84.**



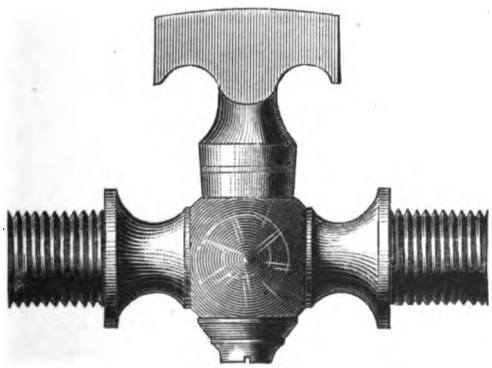
Screwed for $\frac{3}{8}$ inch pipe.

No. 4. **Fig. 85.**



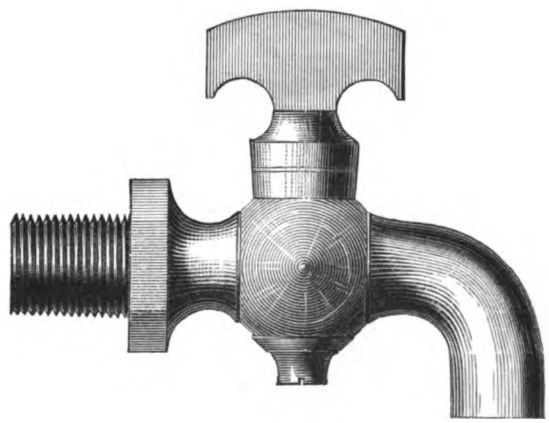
Screwed for $\frac{1}{4}$ inch pipe.

No. 5. **Fig. 86.**



Screwed for $\frac{1}{8}$ and $\frac{1}{4}$ inch pipe.

No. 6. **Fig. 87.**



No. 6, Screwed for $\frac{1}{4}$ inch pipe.
" 7, " " $\frac{3}{8}$ " "

A. CARR, MANUFACTURER, NEW YORK.

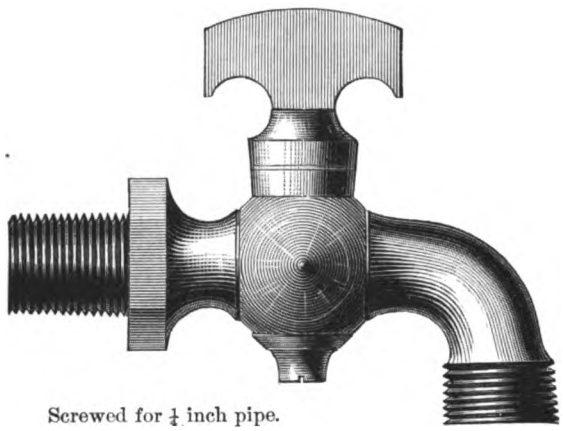
Digitized by Google

AIR COCKS, BEST STEAM METAL.

FINISHED.

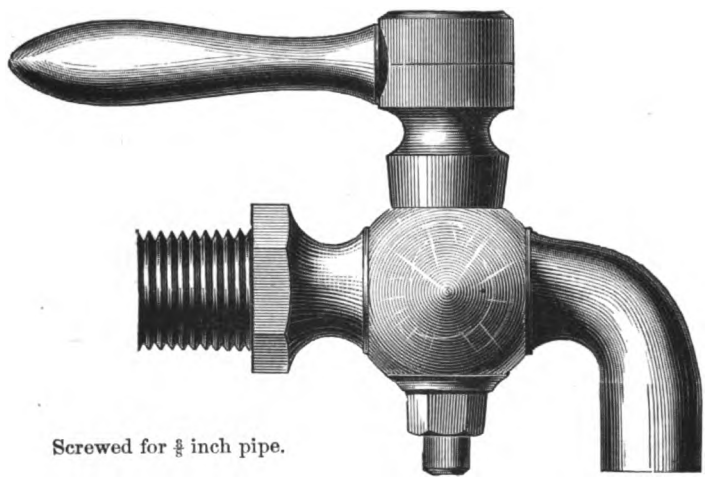
(Full Size.)

No. 8. **Fig. 88.**



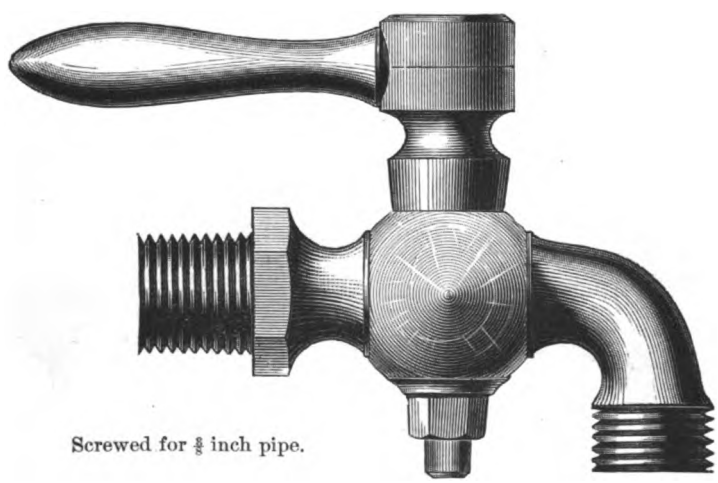
Screwed for ¼ inch pipe.

No. 9. **Fig. 89.**



Screwed for ⅜ inch pipe.

No. 10. **Fig. 90.**



Screwed for ⅜ inch pipe.

A. CARR, MANUFACTURER, NEW YORK.

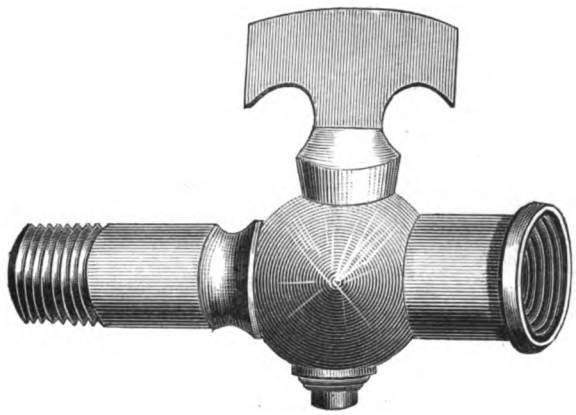
Digitized by Google

COCKS FOR STEAM GAUGES,

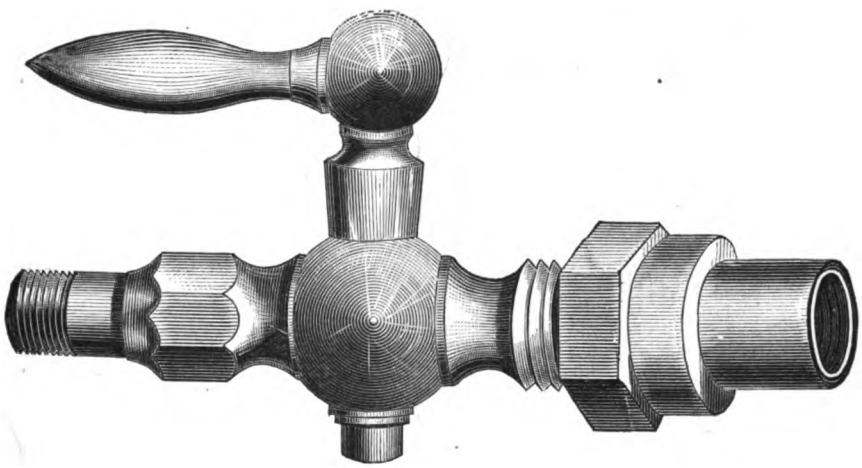
BEST STEAM METAL, FINISHED.

(Full Size.)

No. 1. **Fig. 91.**



No. 2. **Fig. 92.**



No. 3. **Fig. 93.**

A. CARR, MANUFACTURER, NEW YORK.

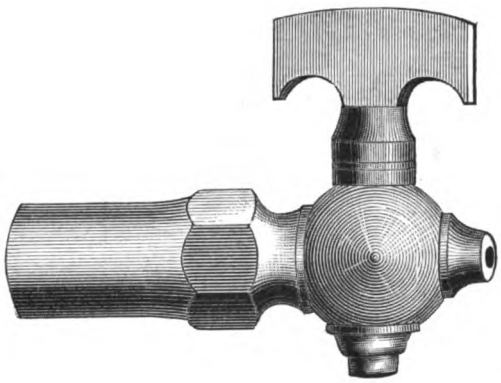
Digitized by Google

CYLINDER COCKS, BEST STEAM METAL,

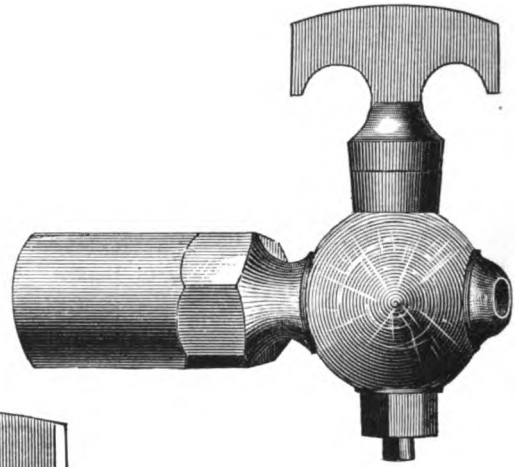
FINISHED.

(Full Size.)

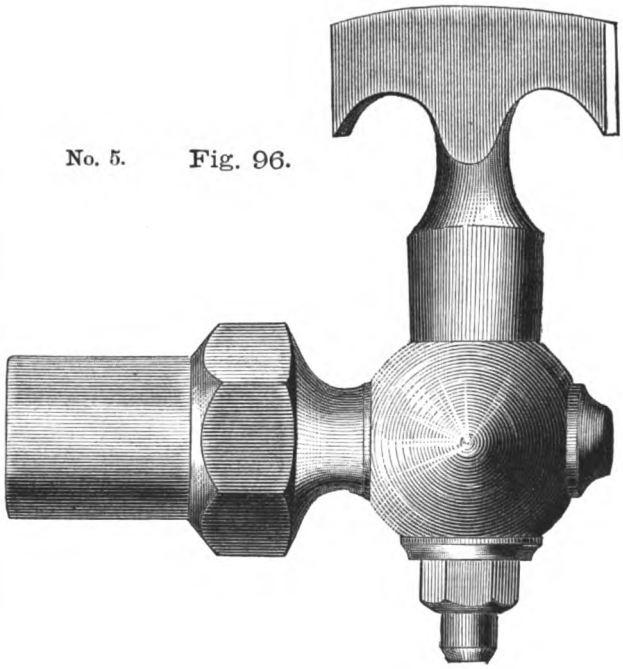
No. 3. Fig. 94.



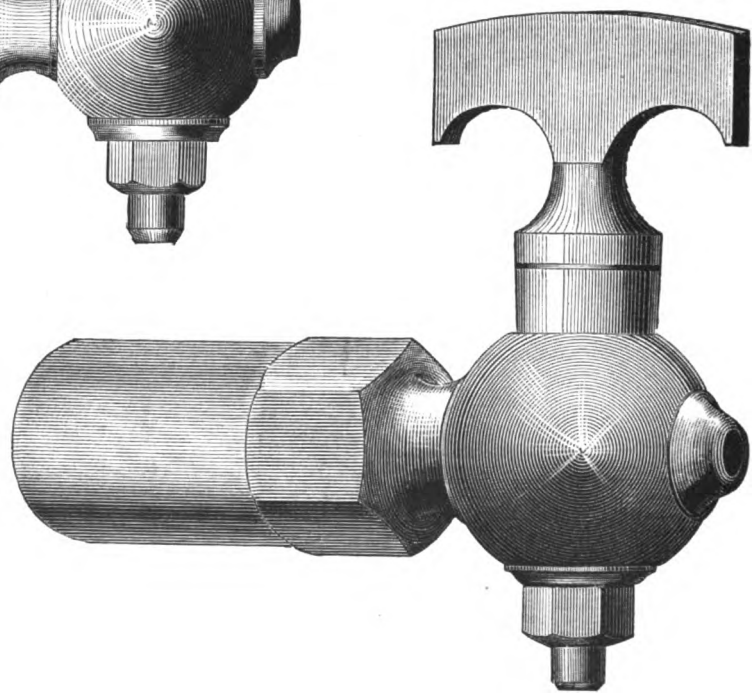
No. 4. Fig. 95.



No. 5. Fig. 96.



No. 6. Fig. 97.



A. CARR, MANUFACTURER, NEW YORK.

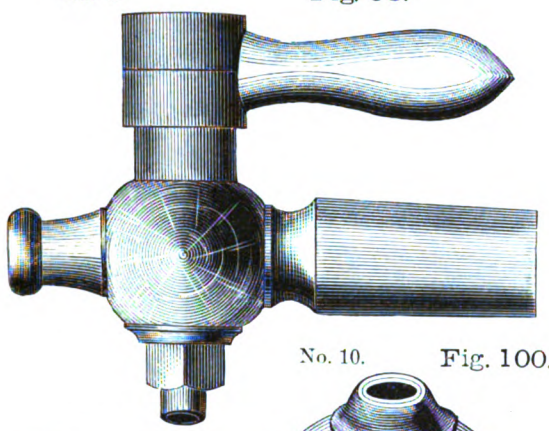
Digitized by Google

CYLINDER COCKS, BEST STEAM METAL.

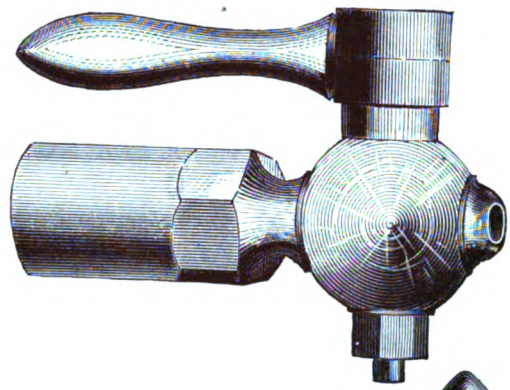
FINISHED.

(Full Size.)

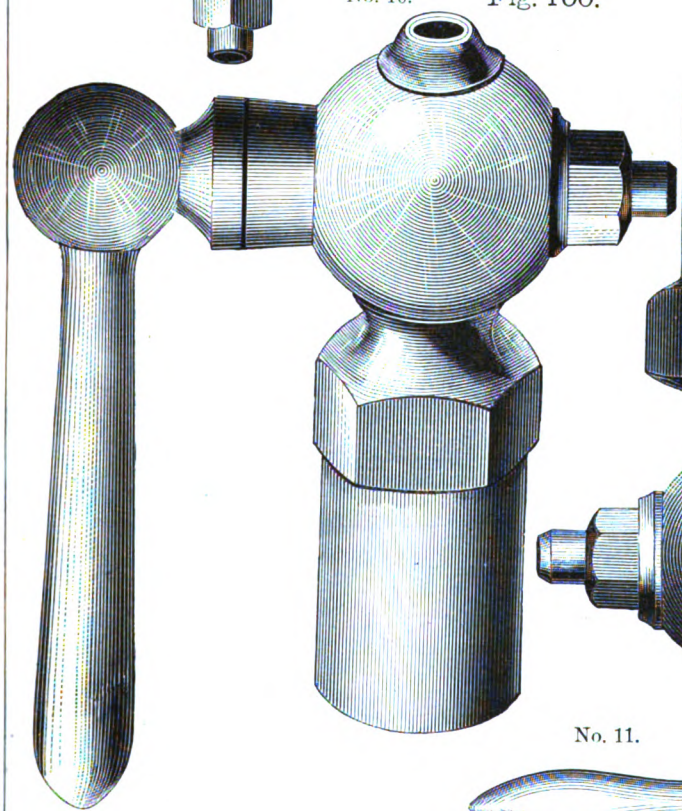
No. 7. Fig. 98.



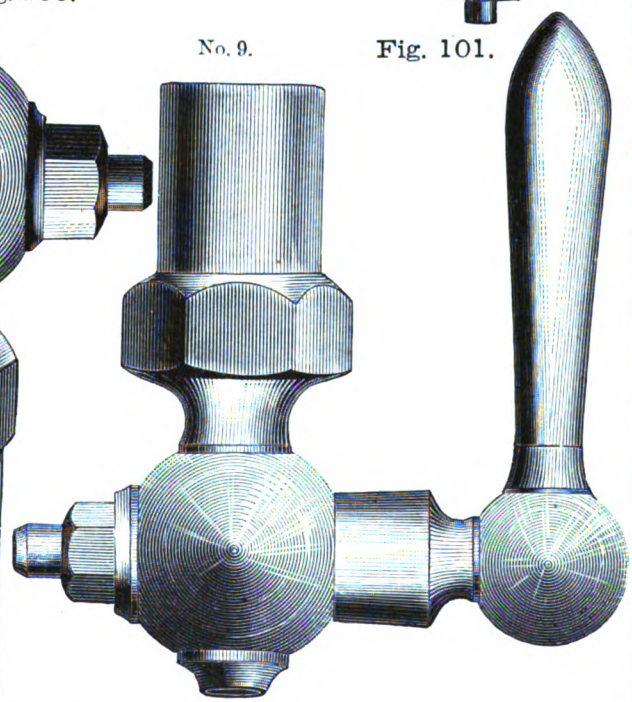
No. 8. Fig. 99.



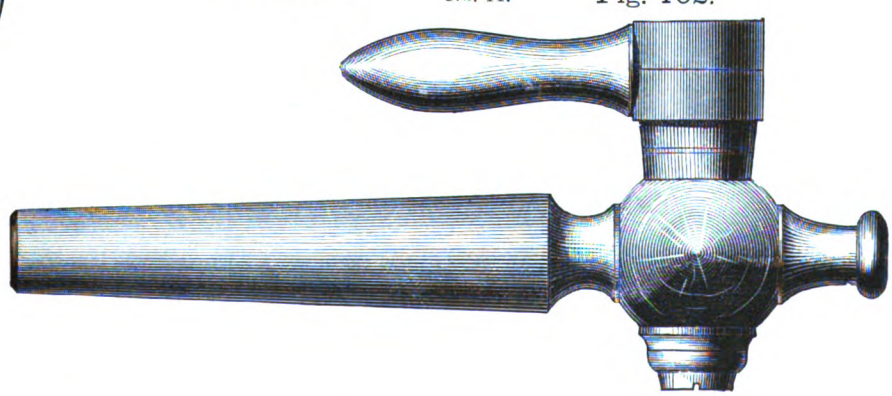
No. 10. Fig. 100.



No. 9. Fig. 101.



No. 11. Fig. 102.

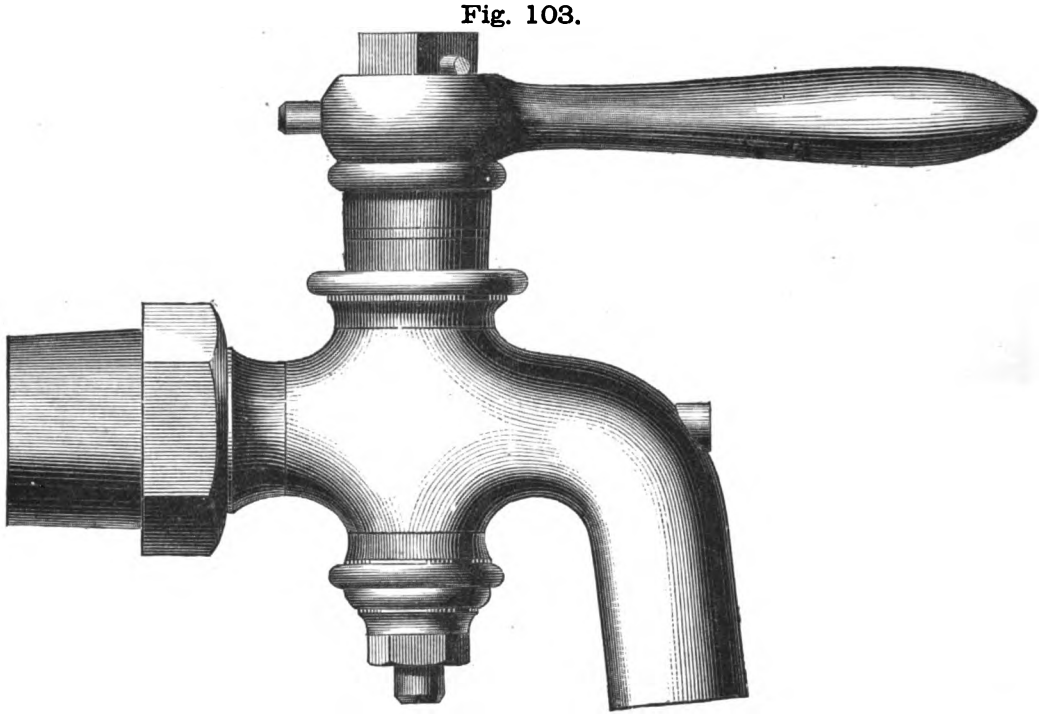


A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STEAM BIBBS, BEST STEAM METAL.

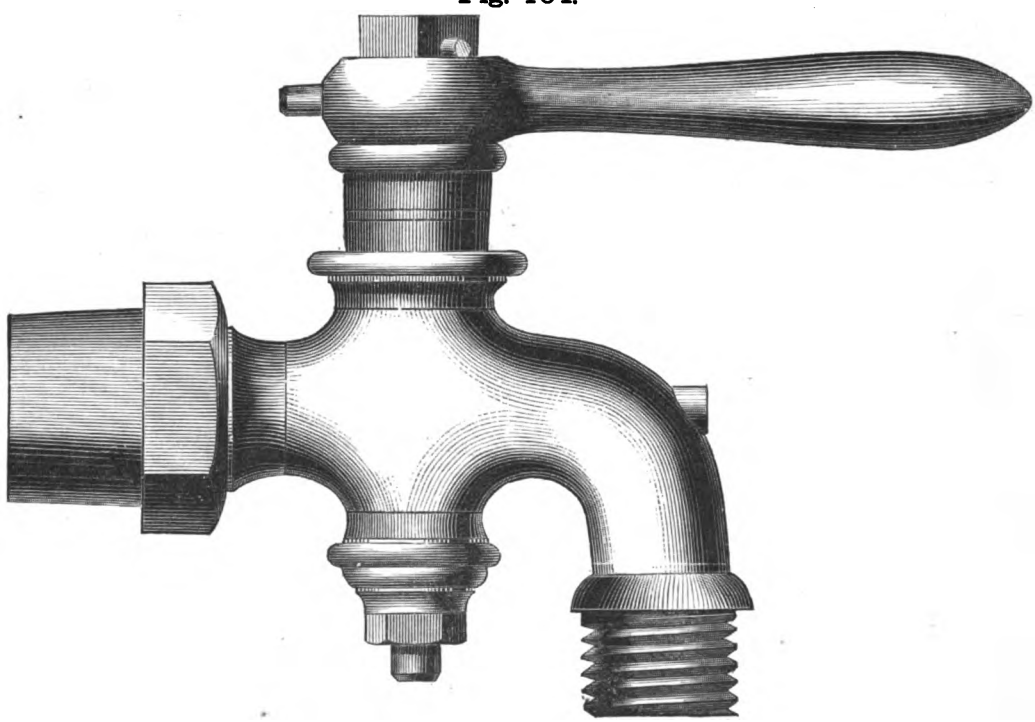
Fig. 103.



Size inside, ¼, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 2, 2½, 3 inch.

SCREW NOZZLE FOR IRON PIPE.

Fig. 104.



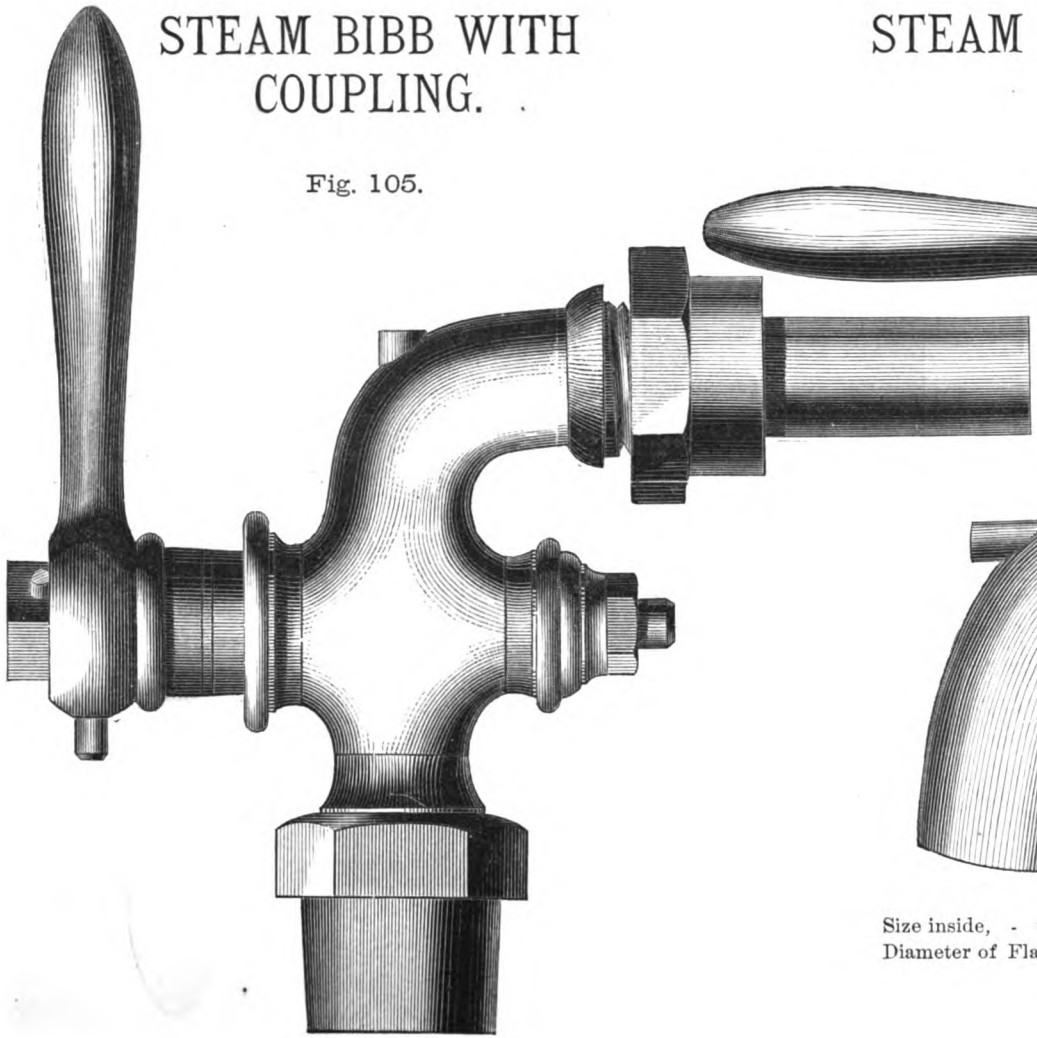
Size inside, ¼, ⅜, ½, ⅝, ¾, 1 inch.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STEAM BIBB WITH COUPLING.

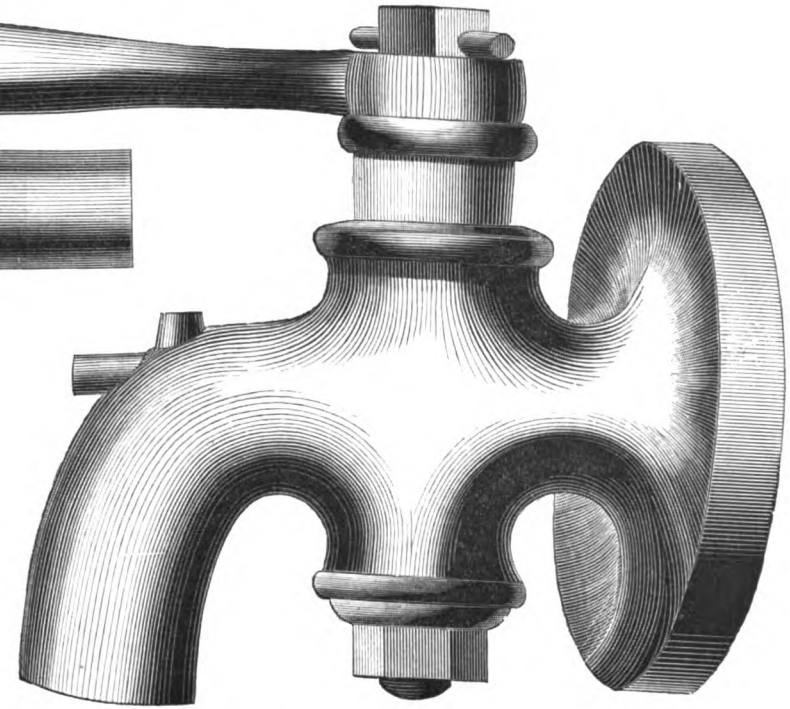
Fig. 105.



Size inside, ½, ⅝, ¾, ⅞, 1 inch.

STEAM BIBB WITH FLANGE.

Fig. 106.

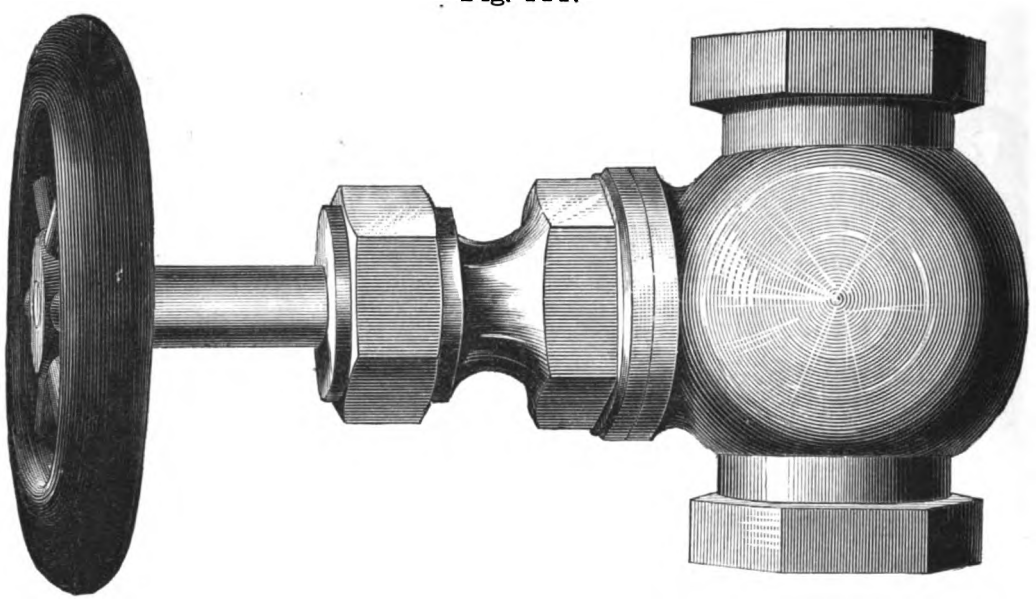


Size inside, - - - 1, 1¼, 1½, 1⅞, 2, 2½, 3, 3½, 4 inches.
Diameter of Flange, 4, 4½, 5, 5½, 6, 7, 7½, 9, 10 "

Digitized by Google

GLOBE VALVE, BEST STEAM METAL.

Fig. 111.

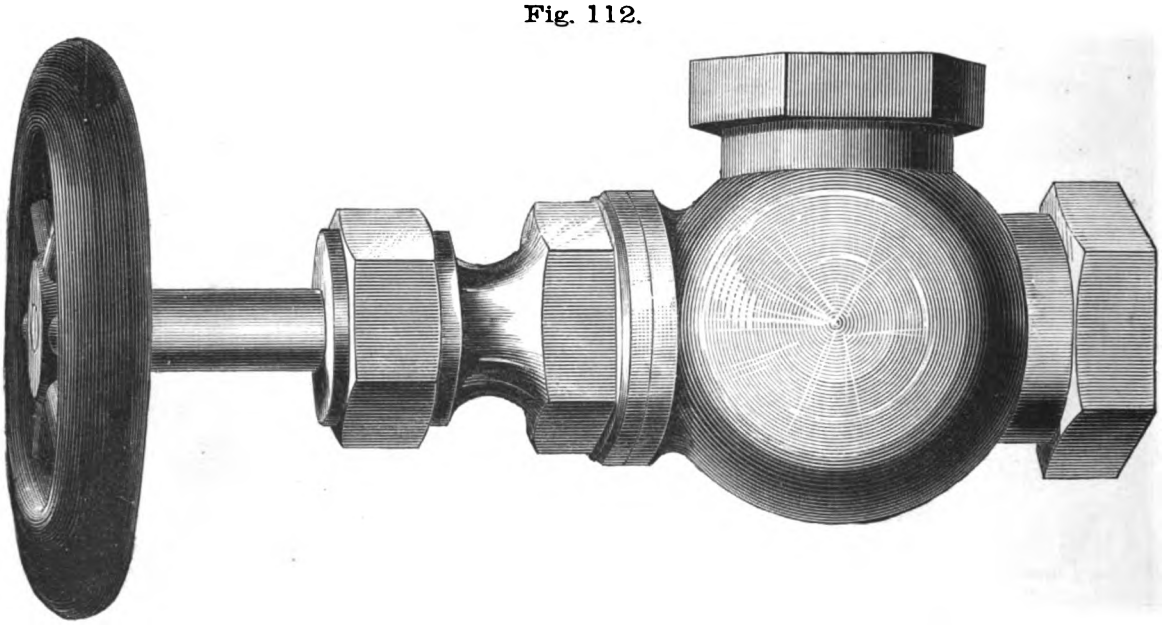


Sizes,	-	-	-	-	-	¼,	⅜,	½,	¾,	1,	1¼,	1½,	2,	2½,
Diameter of Flanges,	-	-	-	-	-	4,	4,	5,	5¼,	6⅜,	7,	8,	9,	10,
Between Faces of Flanges,	-	-	-			4,	4,	3,	5¼,	5¾,	7,	8⅝,	9,	10½,

Sizes,	-	-	-	-	-	3,	3½,	4,	5,	6	inches.			
Diameter of Flanges,	-	-	-	-	-	11,	12	"						
Between Faces of Flanges,	-	-	-			12½,	13⅛	"						

ANGLE VALVE, BEST STEAM METAL.

Fig. 112.



Sizes,	-	-	-	-	-	¼,	⅜,	½,	¾,	1,	1¼,	1½,	2,	2½,
Diameter of Flanges,	-	-	-	-	-	4,	4,	5,	5¼,	6⅜,	7,	8,	9,	10,
Between Faces of Flanges,	-	-	-			4,	4,	3,	5¼,	5¾,	7,	8⅝,	9,	10½,

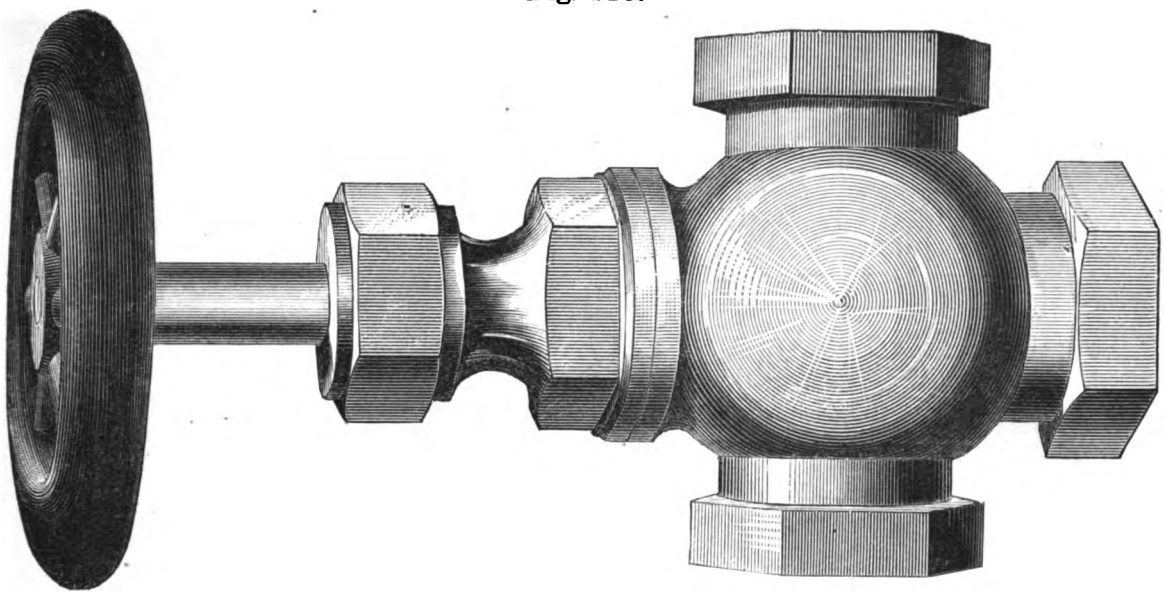
Sizes,	-	-	-	-	-	3,	3½,	4,	5,	6	inches.			
Diameter of Flanges,	-	-	-	-	-	11,	12	"						
Between Faces of Flanges,	-	-	-			12½,	13⅛	"						

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

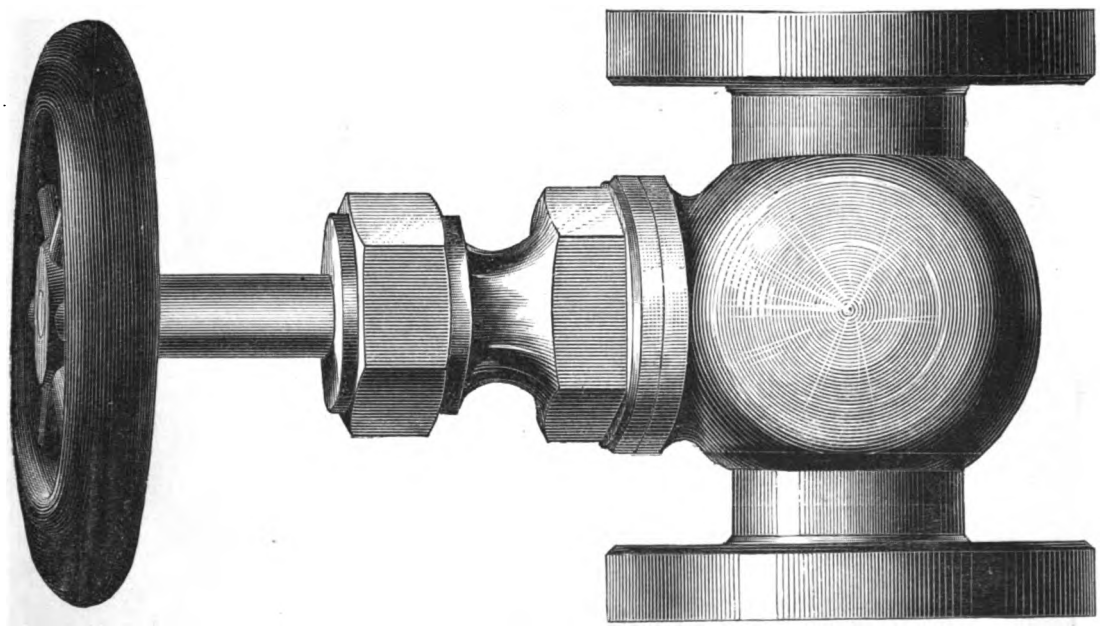
CROSS VALVES, BEST STEAM METAL.

Fig. 113.



Sizes,	¼,	1,	1¼,	1½,	2,	2½,	3,	3½,	4,	5,	6	inches.
Diameter of Flanges,	4,	4,	5,	5½,	6⅝,	7,	8,	9,	10,	11,	12	"
Between Faces of Flanges,	4,	4,	3,	5½,	5¾,	7,	8⅜,	9,	10½,	12¼,	13⅛	"

Fig. 114.



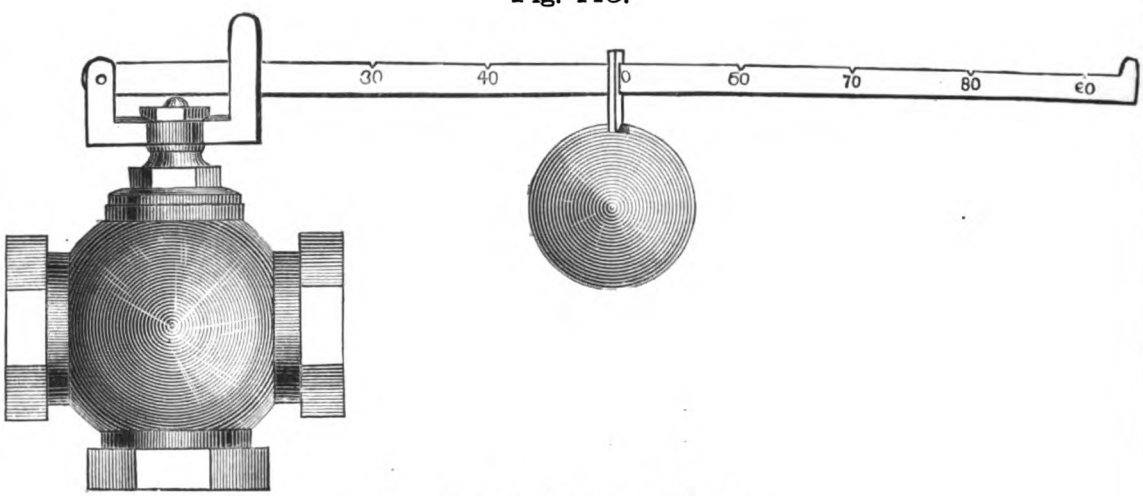
Sizes,	¼,	1,	1¼,	1½,	2,	2½,	3,	3½,	4,	5,	6	inches.
Diameter of Flanges,	4,	4,	5,	5½,	6⅝,	7,	8,	9,	10,	11,	12	"
Between Faces of Flanges,	4,	4,	3,	5½,	5¾,	7,	8⅜,	9,	10½,	12¼,	13⅛	"

Digitized by Google

SAFETY VALVES, BEST STEAM METAL.

(WITH FLANGES SAME DIAMETER AND DISTANCE BETWEEN FACES AS GLOBE VALVES.)

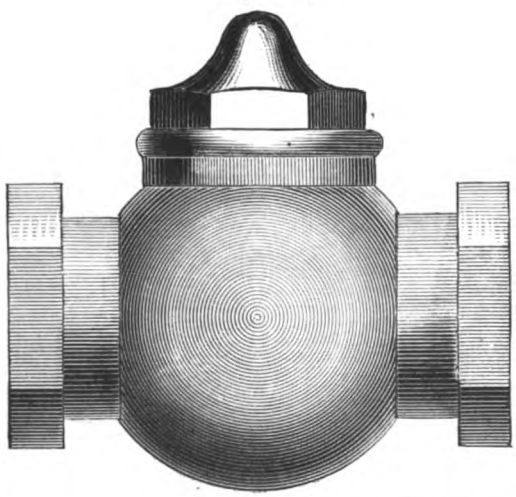
Fig. 115.



Sizes, ¼, ⅜, 1, 1¼, 1½, 2, 2½, 3 inches.

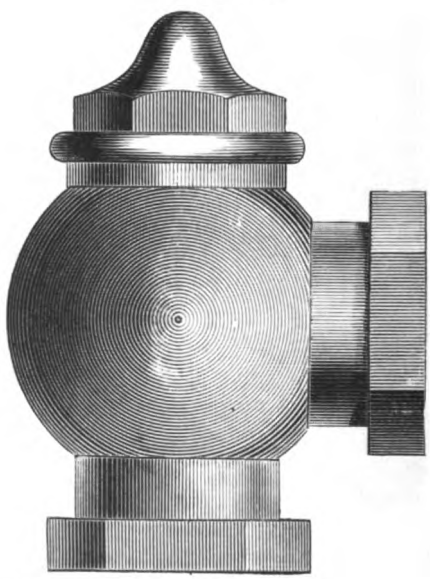
HORIZONTAL CHECK VALVE.

Fig. 116.



ANGLE CHECK VALVE.

Fig. 117.



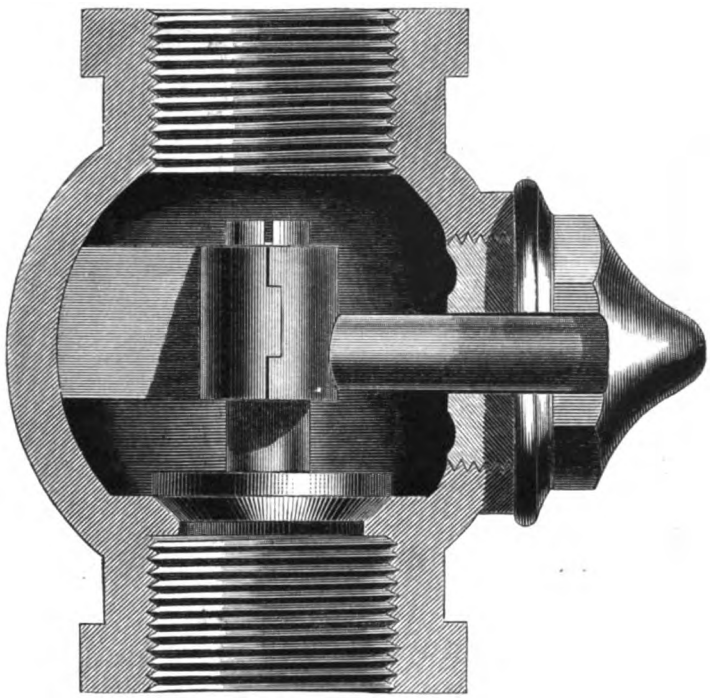
Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3 inches.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

VERTICAL CHECK VALVE, BEST STEAM METAL.

Fig. 118.



Sizes, ¼, ⅜, 1, 1¼, 1½, 2, 2½, 3 inches.

PUMP VALVES, WITH AIR CHAMBER.

Fig. 119.

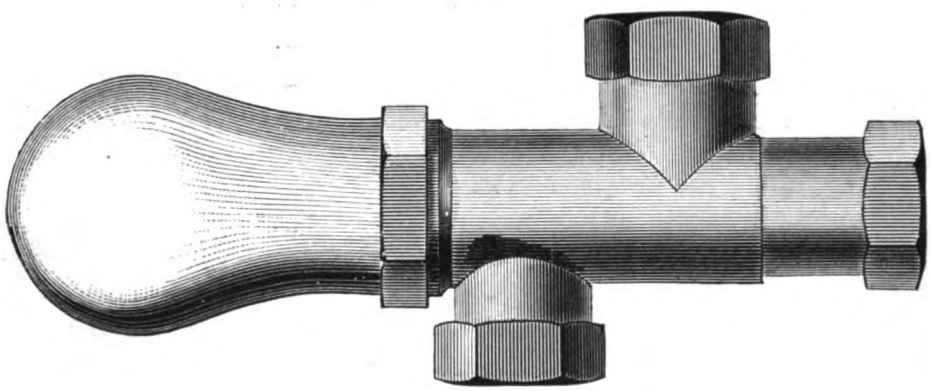
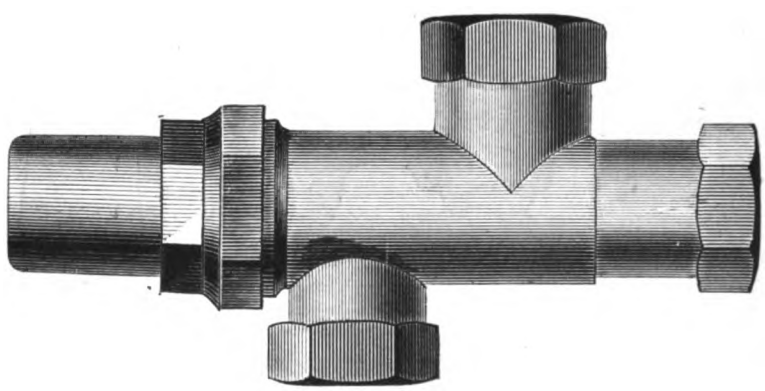


Fig. 120.

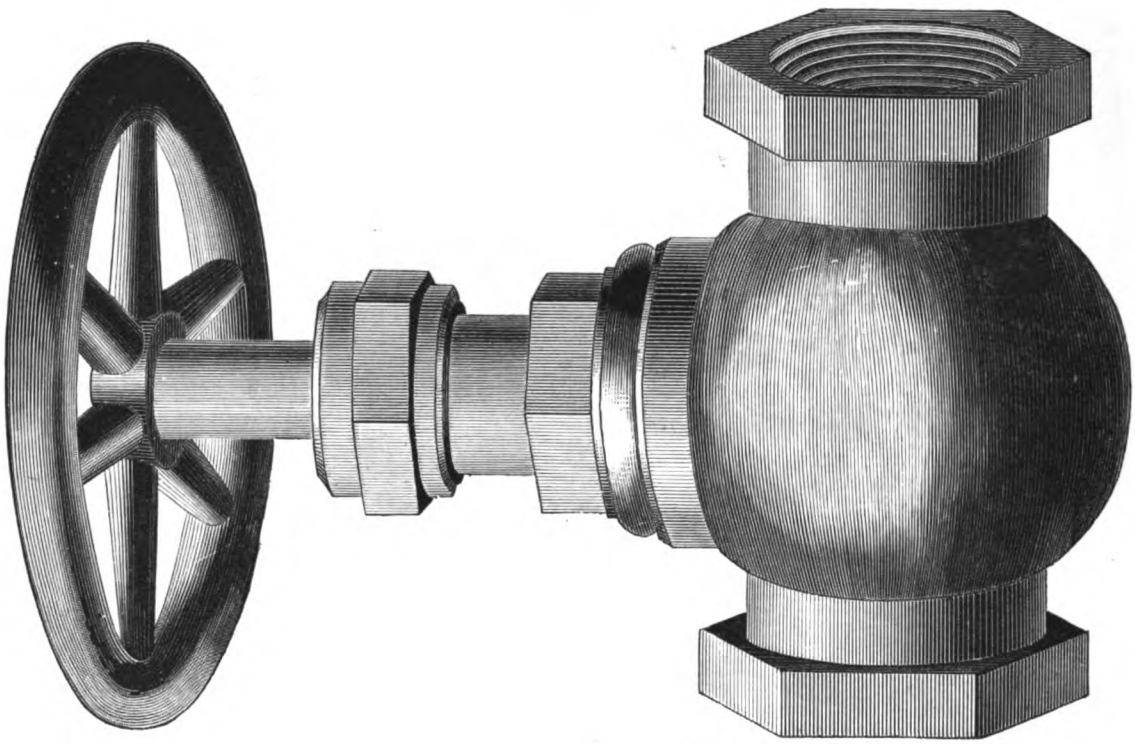


Sizes, ¾, 1, 1¼, 1½ inches.

Digitized by Google

GLOBE VALVE, IRON BODY, BRASS MOUNTED.

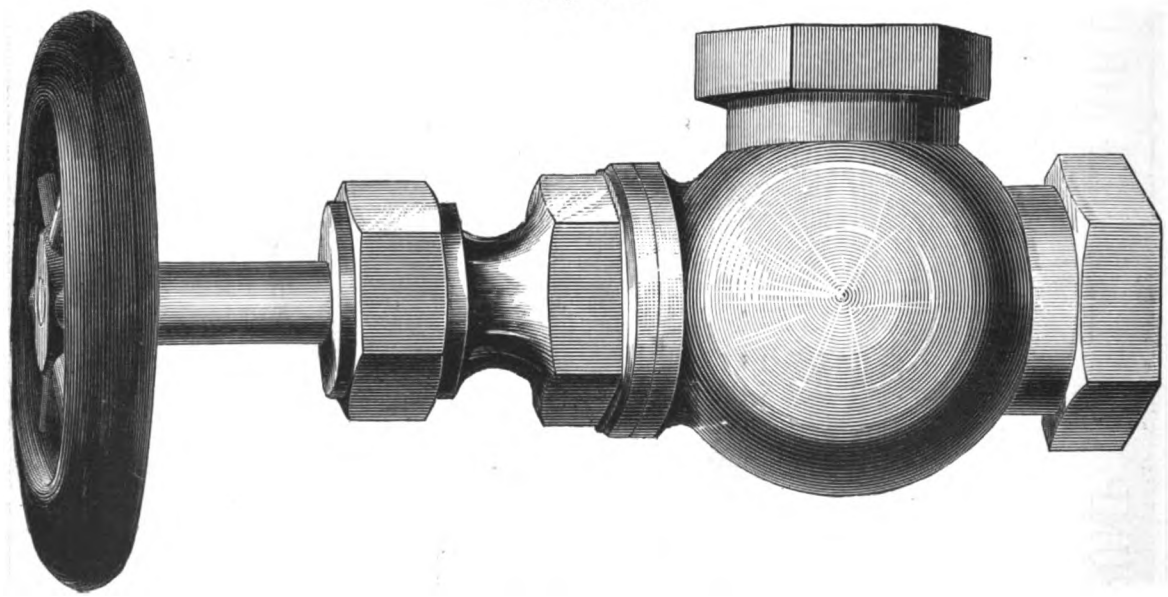
Fig. 121.



Sizes, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6 inches.

ANGLE VALVE, IRON BODY, BRASS MOUNTED.

Fig. 122.



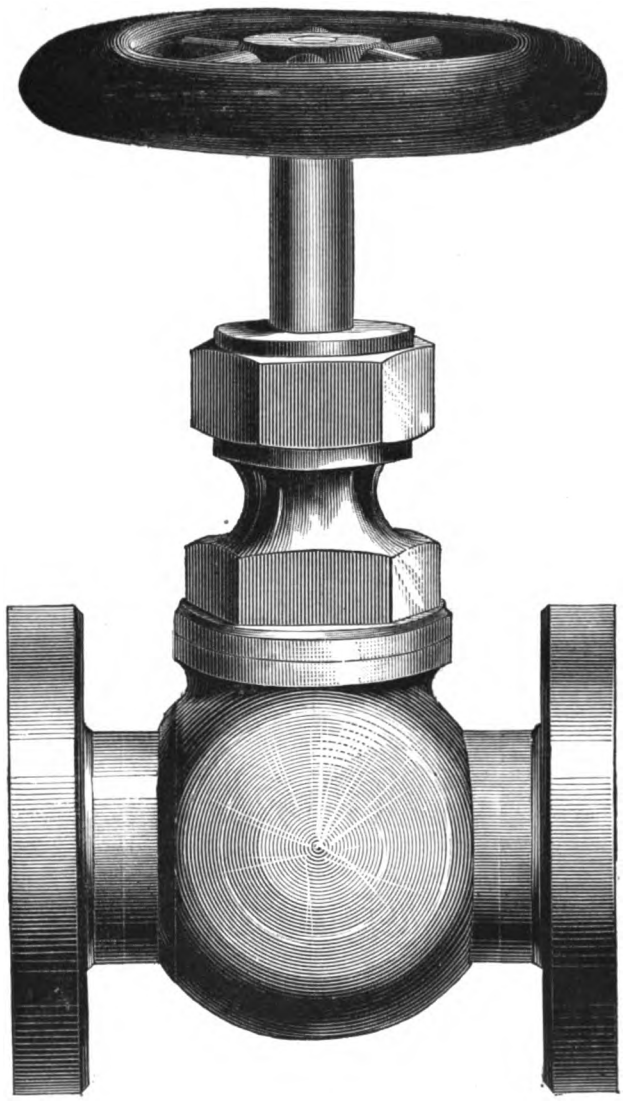
Sizes, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6 inches.

Digitized by Google

GLOBE VALVES FLANGED,

IRON BODY, BRASS MOUNTED.

Fig. 123.



Sizes, - - - - - -	1¼,	1½,	2,	2½,	3,	3½,	4,	5,	6	inches.
Diameter of Flanges, - -	5,	5½,	6,	7,	8,	9,	10,	11,	12	"
Between Faces of Flanges,	4¼,	4½,	6,	7,	8⅛,	9,	10½,	12½,	13⅞	"

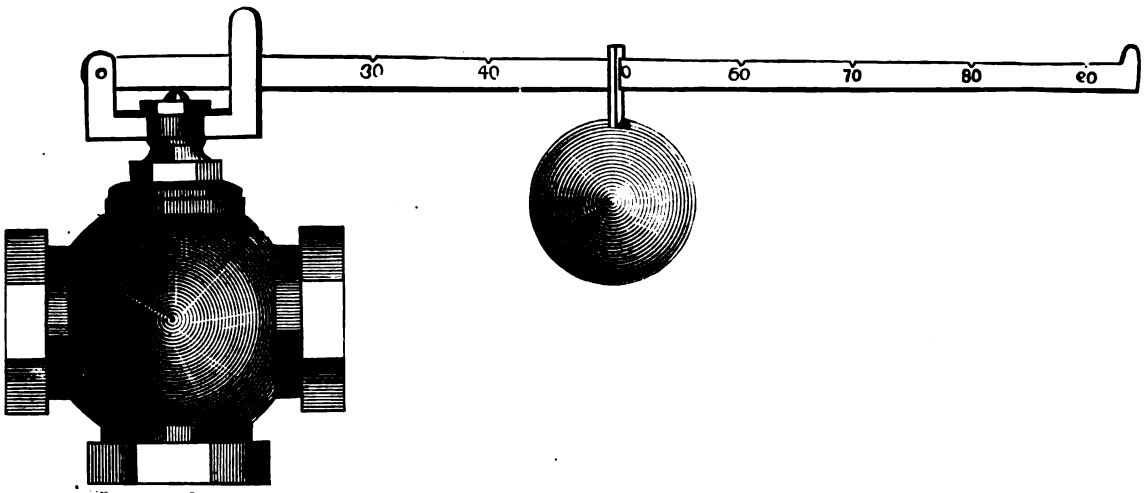
ANGLE VALVES FLANGED SAME SIZE.

Digitized by Google

SAFETY VALVES, IRON BODY.

BRASS MOUNTED.

Fig. 124.

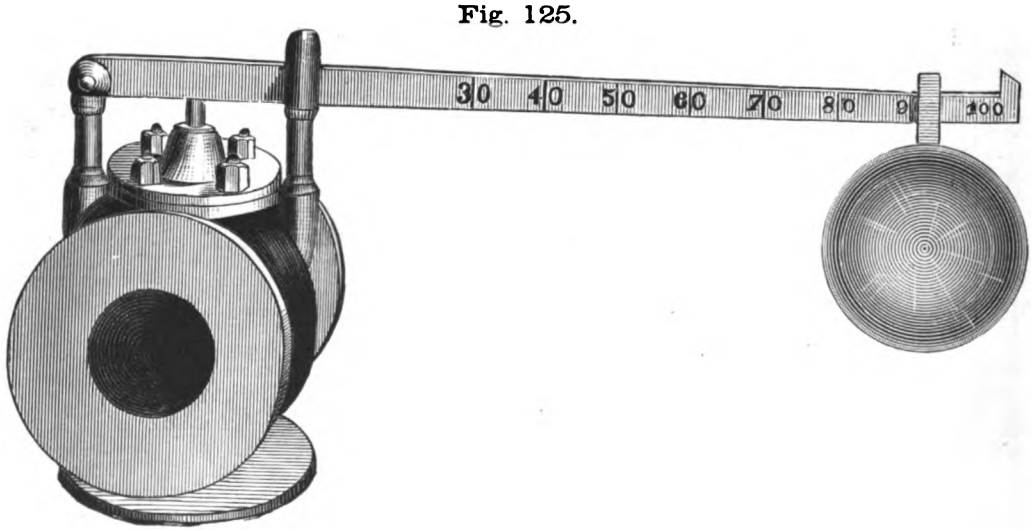


Sizes, 1¼, 1½, 2, 2½, 3, 3½, 4 inches.

SAFETY VALVES, IRON BODY, FLANGED.

BRASS MOUNTED.

Fig. 125.



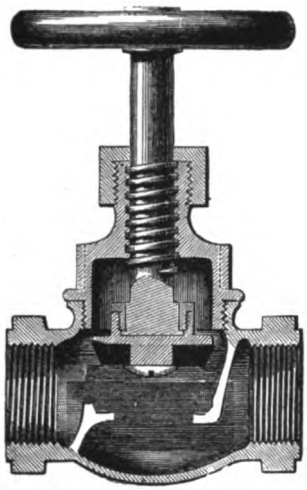
Sizes,	2,	2½,	3,	3½,	4,	5,	6	inches.
Diameter of Flanges,	6,	7,	8,	9,	10,	11,	12	"
Distance between do.	6,	7,	8¾,	9,	10½,	12¼,	13⅞	"

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

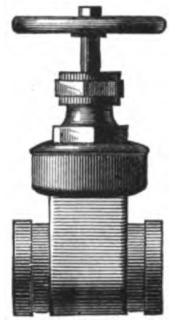
JOHNSON VALVE.

Fig. 126.



PEET VALVE.

Fig. 127.

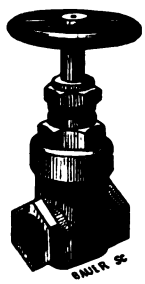


Brass and Iron Body, Brass Mounted. Sizes, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2, 3, $3\frac{1}{2}$ inches.
Flanged, - - - - - - - 2, 3, $3\frac{1}{2}$ "
Iron Body with Flanges, Brass Mounted. Sizes, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4, 5, 6, 7, 8 inches.

LUDLOW VALVES.

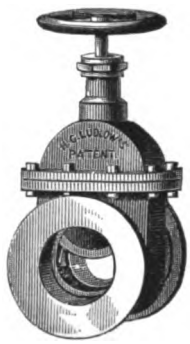
BRASS.

Fig. 128.



IRON.

Fig. 129.

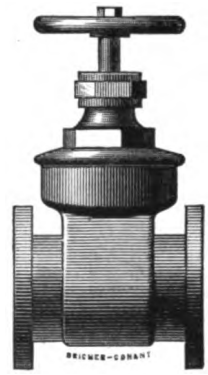


IRON WITH INDICATOR.

Fig. 130.

FLANGED.

Fig. 131.



Sizes, $\frac{1}{4}$, $\frac{3}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 inches.

IRON VALVES, BRASS MOUNTED, OR ALL IRON.

Sizes, - - - - - - - -	$2\frac{1}{2}$,	3,	$3\frac{1}{2}$,	4,	5,	6,	8,	10,	12,	14,	16,	18,	20,	24 inches.
Diameter of Standard Flange, -	7,	8,	$8\frac{1}{2}$,	9,	10,	11,	13,	16,	18,	20,	22,	24,	26,	30 "
Measurement from face to face of Flanges, - - - - - -	$6\frac{1}{16}$,	$7\frac{3}{8}$,	8,	$9\frac{3}{8}$,	$10\frac{3}{4}$,	$11\frac{1}{8}$,	11,	$12\frac{1}{8}$,	$12\frac{3}{4}$,	$13\frac{3}{4}$,	$13\frac{3}{4}$,	14,	14,	14 "
Measurement from end to end of Hubs, - - - - - - -	—	$10\frac{1}{4}$,	—	12,	12,	$12\frac{1}{2}$,	$14\frac{1}{4}$,	14,	$14\frac{1}{4}$,	$15\frac{1}{4}$,	$15\frac{1}{4}$,	$15\frac{1}{4}$,	$15\frac{1}{4}$,	$15\frac{1}{4}$ "
Measurement from face to face to Screw Socket, - - - - -	$5\frac{1}{2}$,	$8\frac{1}{4}$,	8,	$8\frac{1}{4}$,	$10\frac{3}{4}$,	11	—	—	—	—	—	—	—	— "

Digitized by Google

STEAM COCKS, BEST STEAM METAL.

THREE WAY COCK.

Fig. 133.

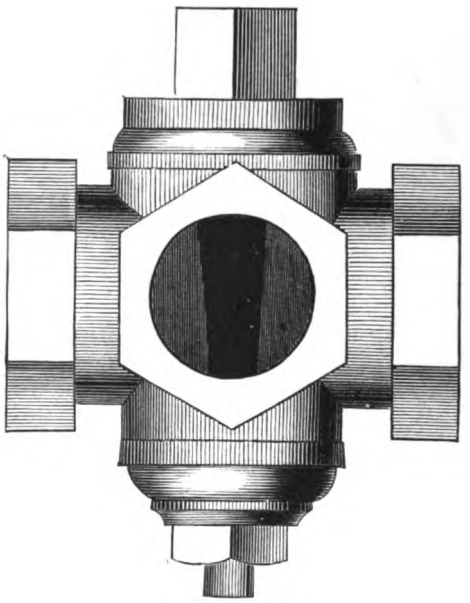
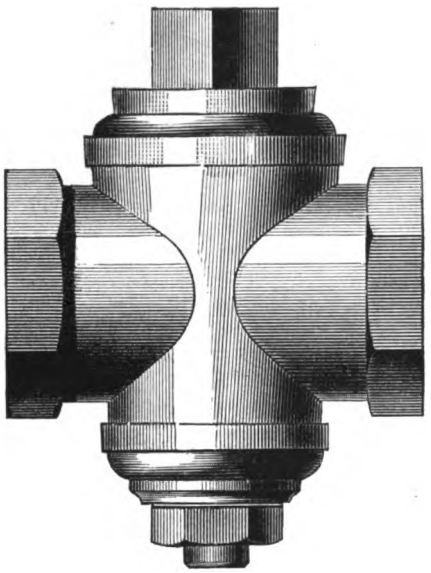


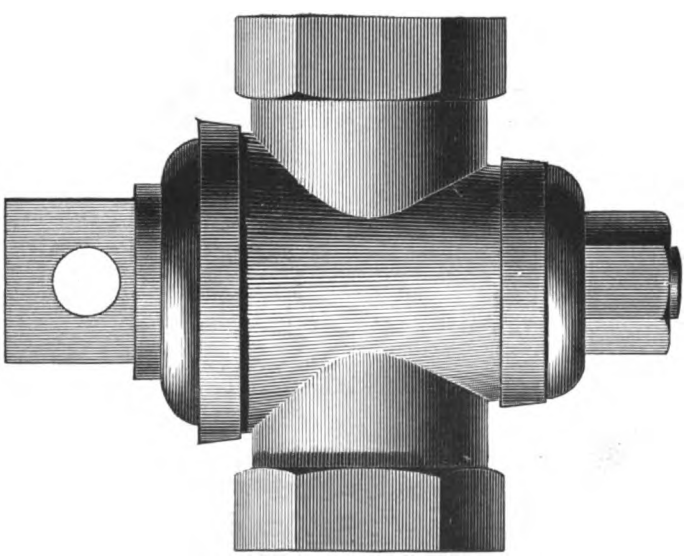
Fig. 132.



Sizes,	¼,	⅜,	½,	¾,	1,	1¼,	1½,	2,	2½,	3,	3½,	4 inches.
Diameter of Flanges, -	4,	4½,	5,	6,	7,	8,	9,	10	"
Between faces of Flanges,	3¼,	3¾,	4⅜,	5¼,	6¼,	7¼,	9¼,	10¾	"

IRON COCKS.

Fig. 134.



Sizes, - - - - - -	½,	¾,	1,	1¼,	1½,	2,	2½,	3,	3½,	4 inches.
Diameter of Flanges, - -	4½,	5,	6,	6½,	7,	8,	8½,	9	"
Between faces of Flanges,	3½,	4¼,	4¾,	6,	7¼,	8¼,	9½,	11	"

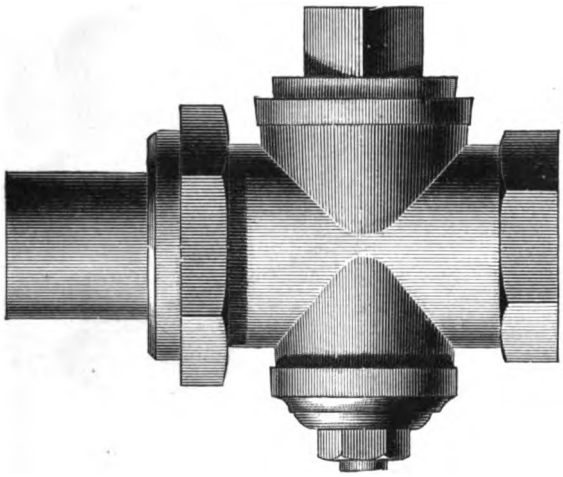
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

GAS COCKS.

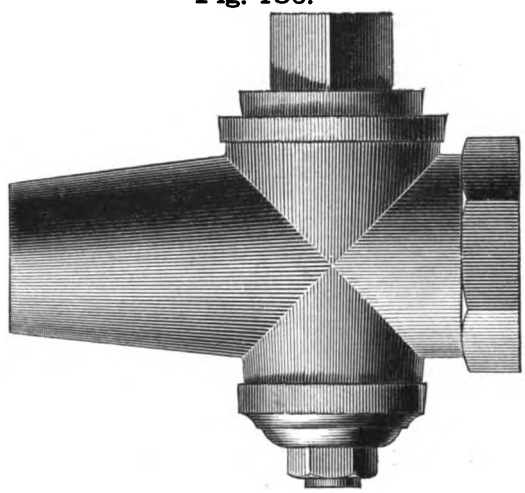
UNION METER COCK.

Fig. 135.



METER COCK, SOLDER END.

Fig. 136.

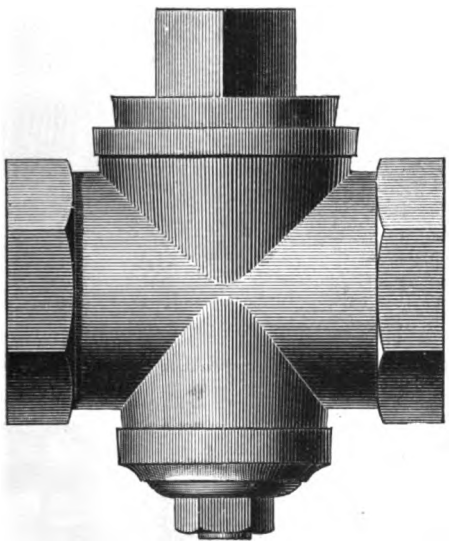


Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3 inches.

SERVICE COCK,

SQUARE HEAD.

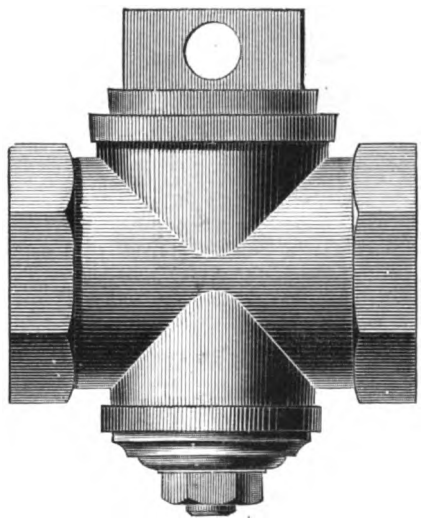
Fig. 137.



SERVICE COCK,

FLAT HEAD.

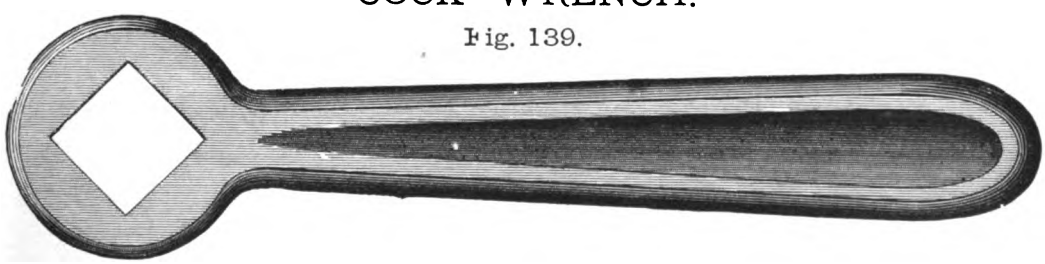
Fig. 138.



Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3 inches.

COCK WRENCH.

Fig. 139.

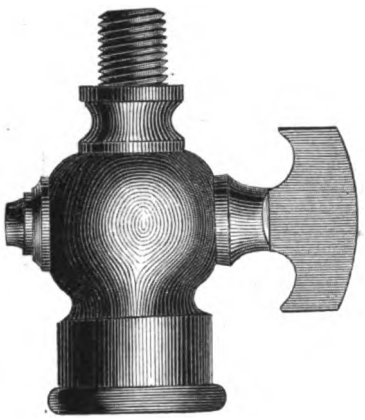


Digitized by Google

STREET LAMP COCKS,

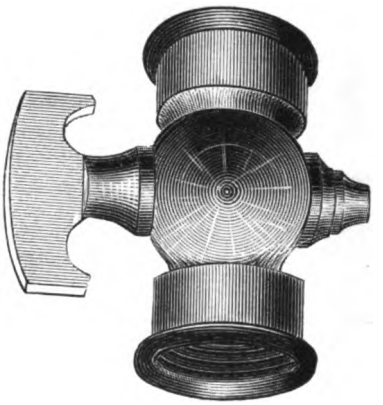
IRON PIPE SIZES.

Fig. 140.



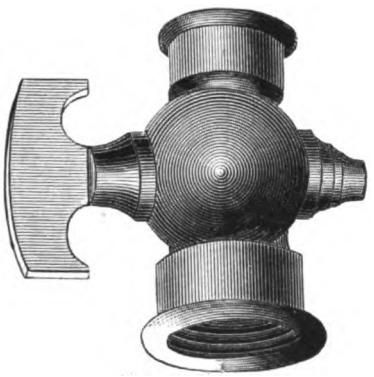
Sizes, $\frac{3}{8}$ x $\frac{1}{8}$, $\frac{1}{2}$ x $\frac{1}{8}$, $\frac{3}{4}$ x $\frac{1}{8}$ inch.

Fig. 141.



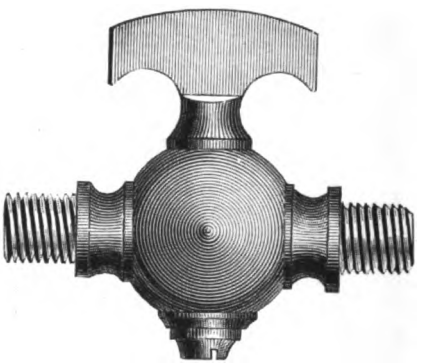
Size, $\frac{3}{8}$ x $\frac{3}{8}$ inch.

Fig. 142.



Size, $\frac{3}{8}$ x $\frac{1}{4}$ inch.

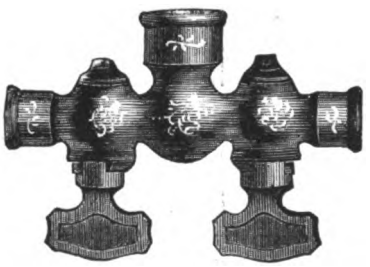
Fig. 143.



Sizes, $\frac{1}{8}$ x $\frac{1}{8}$, $\frac{1}{4}$ x $\frac{1}{8}$, $\frac{1}{4}$ x $\frac{1}{4}$ inch.

2-LIGHT PENDANT COCK.

Fig. 144.



$\frac{3}{8}$ Iron to $\frac{3}{8}$ Iron.
$\frac{3}{8}$ " $\frac{1}{8}$ "
$\frac{3}{8}$ " $\frac{1}{4}$ "
$\frac{1}{4}$ " $\frac{1}{8}$ "
7-16 Brass to 5-16 Brass.

L PENDANT COCK.

Fig. 145.

$\frac{1}{4}$ Iron to $\frac{1}{8}$ Iron.
$\frac{3}{8}$ " $\frac{1}{4}$ "
$\frac{3}{8}$ " $\frac{1}{8}$ "

BRACKET COCK.

Fig. 146.

$\frac{3}{8}$ Iron to $\frac{3}{8}$ Brass.
$\frac{3}{8}$ " $\frac{1}{4}$ "
$\frac{3}{8}$ " $\frac{3}{8}$ "
$\frac{3}{8}$ " $\frac{1}{2}$ " heavy.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

FIXTURE COCKS.

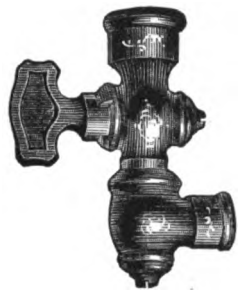
UNIVERSAL SWING JOINT.

Fig. 147.

1/8 to 5-16 Brass.
1/8 Iron to 1/8 "
1/4 " 1/8 "
1/4 " 1/8 " heavy.
1/4 " 1/4 Iron.
1/4 " 1/4 " heavy.
3/8 " 3/8 "
3/8 " 3/8 "

REVOLVING COCKS.

Fig. 148.



3/8 Iron to 3/8 Brass.
3/8 " 1/4 Iron.
1/4 " 1/4 "
" 1/8 "
Universal Revolving Cock, 1/4 to 1/8.

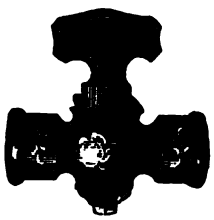
MIDDLE SWINGS.

Fig. 149.

1/4 Iron to 1/4 Iron.
1/4 " 1/8 "
1/4 Brass to 1/4 Brass.
3/8 " 3/8 "
7-16 " 7-16 "

CHANDELIER COCK.

Fig 150.



1/8
1/4 Iron to 1/4 Iron.
1/4 " 1/8 "
3/8 " 3/8 "
5-16 Brass to 5-16 Brass.
1/4 Iron to 3/8 Iron.
1/4 " 1/2 "
3/8 " 3/8 Brass.

PILLAR COCK.

Fig. 151.

1/4 Iron to Burner.
1/8 " "
3/8 " "
1/2 " "
3/4 " "

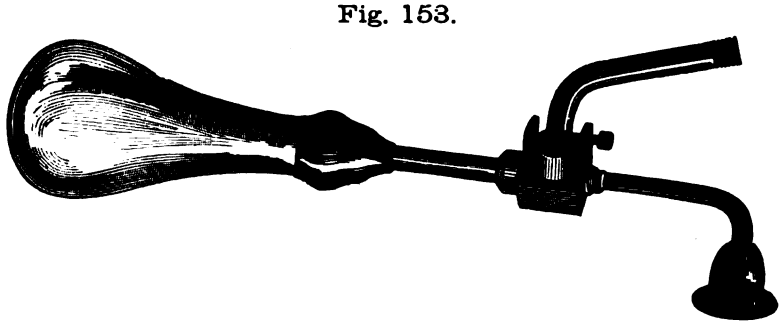
SIDE NOZZLE.

Fig. 152.

5-16 Brass.
3/8 "
7-16 "
1/2 "
1/4 Iron.
3/8 "

CIGAR LIGHTER.

Fig. 153.



Digitized by Google

GAS BURNERS.

IMPERIAL.

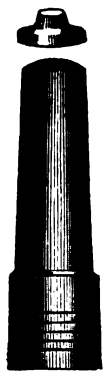
Fig. 154.

No. 1.

YOUNG AMERICA.

Fig. 155.

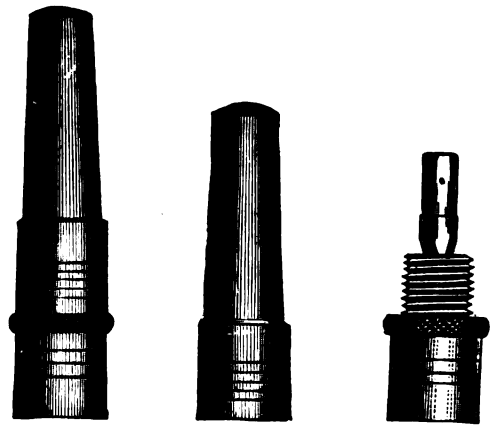
No. 2.



AMERICAN BURNER.

No. 3.

Fig. 156.



DOUBLE OR CYLINDER BURNER.

No. 4. Fig. 157.

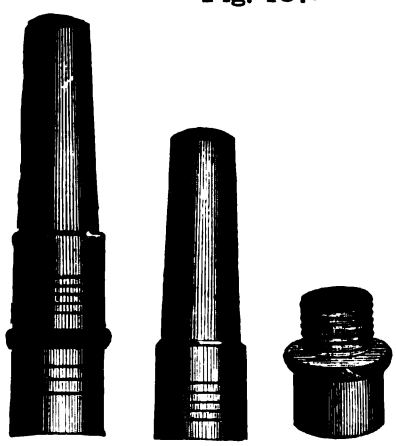


Fig. 158.

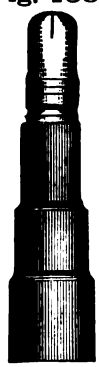


Fig. 159.

Fig. 160.

Fig. 161.

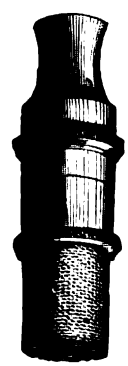
Lava Tips furnished in plain pillars as above, or in Patent American, Young America or Cylinder Burners. Also, without Pillars,

DROP LIGHT SOCKET.

Fig. 162.

PATENT COUPLING FOR CONNECTING FLEXIBLE HOSE TO PORTABLES.

Fig. 163.



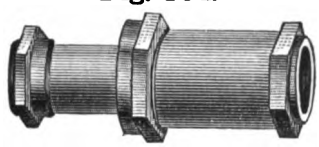
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

EXPANSION JOINT, BEST STEAM METAL.

SCREWED FOR IRON PIPE.

Fig. 164.

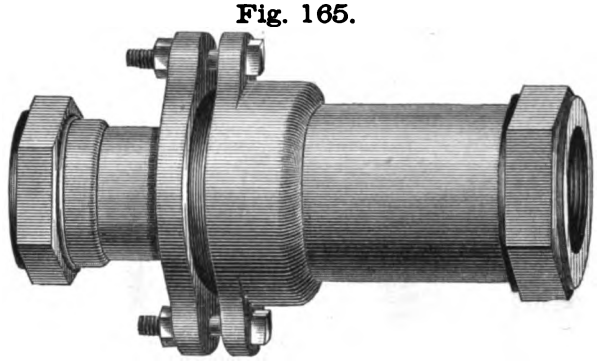


Sizes, ¼, ⅜, 1, 1¼, 1½, 2, 2½, 3 inches.

IRON BODY, BEST STEAM METAL SLEEVE.

SCREWED FOR IRON PIPE.

Fig. 165.

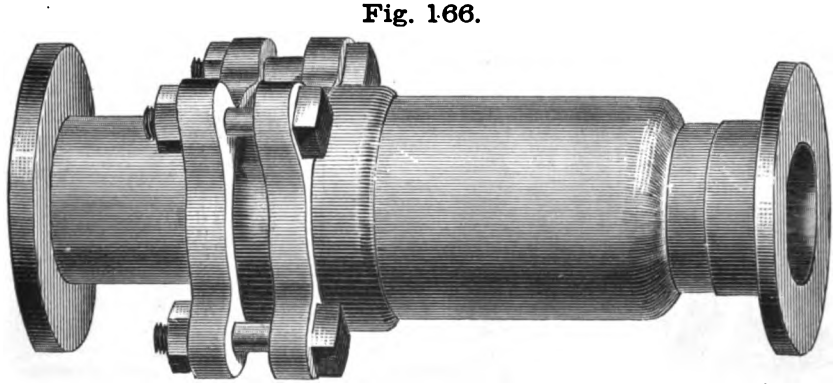


Sizes, 2, 2½, 3, 3½, 4, 5, 6 inches.

IRON BODY, BEST STEAM METAL SLEEVE.

FLANGED.

Fig. 166.



Sizes, - - - - - -	3,	3½,	4,	5,	6,	8 inches.
Diameter of Flanges,	6,	6½,	7½,	9½,	10½,	13 "

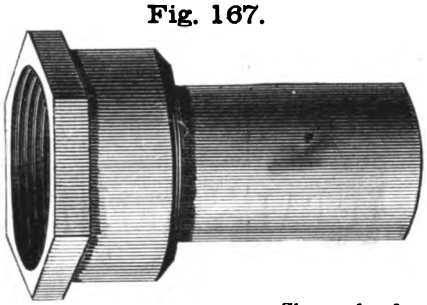
Digitized by Google

BRASS FITTINGS FOR IRON PIPE,

BEST STEAM METAL.

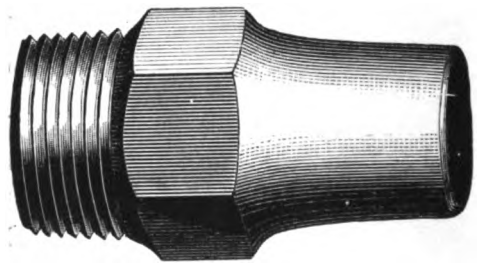
SOLDERING UNION.

Fig. 167.



SOLDERING NIPPLE.

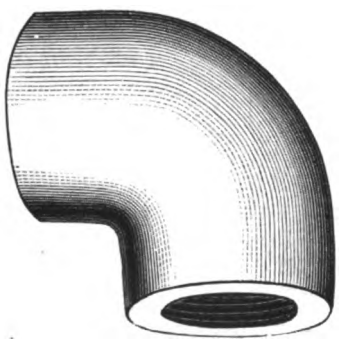
Fig. 168.



Sizes, ¼, ⅜, ½, 1 1¼, 1½, 2, 2½, 3 inches.

ELBOW.

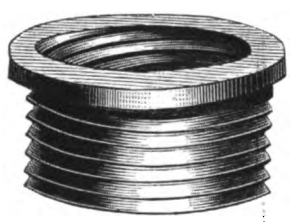
Fig. 169.



Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2 inches.

BUSHING.

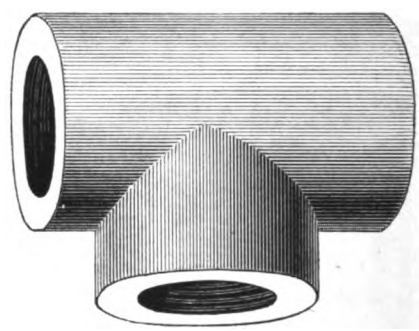
Fig. 170.



Sizes, ¼x⅛, ⅜x⅛, ⅜x¼, ½x¼, ½x⅜, ½x¾, ¾x½, 1x¾, 1¼x1, 1½x1¼, 2x1½ inches.

TEE.

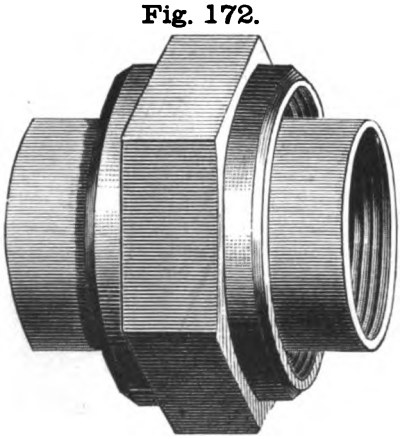
Fig. 171.



Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2 inches.

UNION.

Fig. 172.



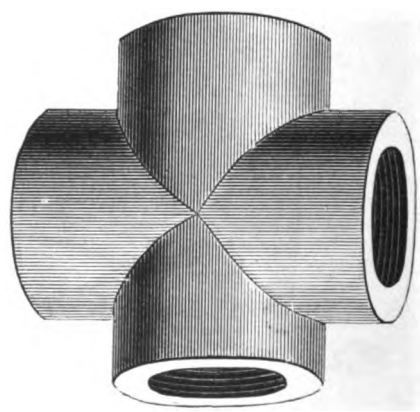
Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2 inches.

NIPPLE.

Fig. 173.

CROSS.

Fig. 174.



Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2 inches.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

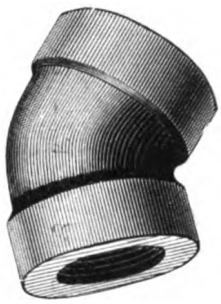
IRON STEAM FITTINGS.

ELBOW.

Fig. 175.

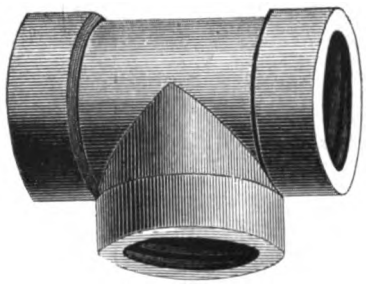
ELBOW 45°.

Fig. 176.



TEE.

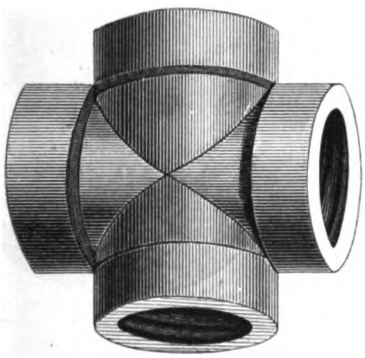
Fig. 177.



Sizes ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6 inches.

CROSS.

Fig. 178.

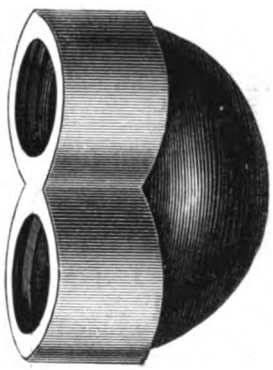


BRANCH.

Fig. 179.

RETURN BEND.

Fig. 180.



Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3, 3½, 4 inches.

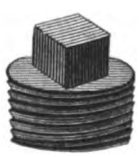
BUSHING.

Fig. 181.

Reducing from 1 to 4 sizes.

PLUG.

Fig. 182.



LOCK NUT.

Fig. 183.

Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6 inches.

A. CARR, MANUFACTURER, NEW YORK.

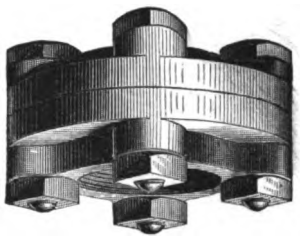
Digitized by Google

IRON STEAM FITTINGS.

MALLEABLE UNION.
Fig. 184.

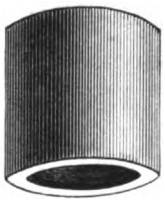
Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3 inches.

FLANGE UNION.
Fig. 185.



Sizes, ½, ¾, 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6 inches.

PLAIN COUPLING.
Fig. 186.

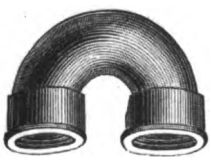


REDUCING COUPLING.
Fig. 187.

R. & L. COUPLING.
Fig. 188.

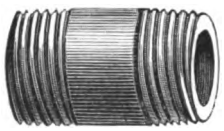
Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6 inches.

OPEN PATTERN RETURN BEND.
Fig. 189.



All sizes, ¼ to 4 inches.

NIPPLE.
Fig. 190.



All sizes, ⅛ to 6 inches.

FLANGE.
Fig. 191.

IRON PIPE FLANGES.

Size of Pipe,	¼	⅜	1	1¼	1½	2	2½	3	3½	4	5	6
Diameter of Flanges, inches,												
12	....	....	...	....	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00
11	....	....	....	....	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00
10	....	....	....	....	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00
9½	. ..	....	....	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00	....
9	....	....	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00	....	....
8½	....	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	....	...
8	....	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	....	....
7½	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	....	....	....
7	....	0 00	0 00	0 00	0 00	0 00	0 00	0 00	....	....	....	....
6½	0 00	0 00	0 00	0 00	0 00	0 00	0 00	....	....	....	....	....
6	0 00	0 00	0 00	0 00	0 00	0 00	....	....	....	....	....	....
5½	0 00	0 00	0 00	0 00	0 00	0 00	....	.. .	....	....	....	....
5	0 00	0 00	0 00	0 00	0 00	....	....	....	....	....	....	....
4½	0 00	0 00	0 00	0 00	0 00	....	....	....	....	....	....	....
4	0 00	0 00	0 00	0 00	....	....	....	....	....	....	....	...

A. CARR, MANUFACTURER, NEW YORK.

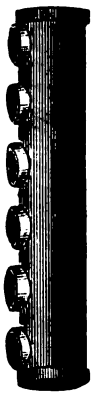
Digitized by Google

IRON STEAM FITTINGS.

A. CARR, MANUFACTURER, NEW YORK.

BRANCH TEE, LARGE RUN.

Fig. 192.



1 inch Branch, 2½ inch Centres.
1¼ " " 3 " "
Inlet, 1¼ inch. Discharge, 1¼ inch.
Any number of Branches from 2 to 12.

1¼ inch, 12 inch Branches.
Inlet 3 inches. Discharge, 2 inches.

BRANCH TEE.

Fig. 193.

¾ inch Branch, 2½ inch Centres.
1 " " 2½ " "
Any number of Branches from 2 to 6.

HOOK PLATE.

Fig. 194.

¾ inch Hook, 2½ inch Centres.
1 " " 2½ " "
Any number of Hooks from 1 to 12.

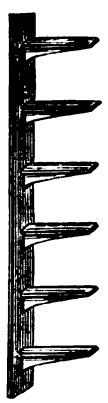
RING PLATE.

Fig. 195.

For ¾ inch and 1 inch pipe.
1 to 10 Rings.

EXPANSION PLATE.

Fig. 196.



1 to 10 Plates.

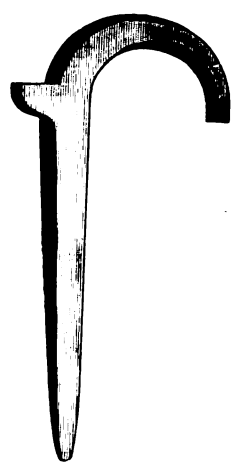
COIL STANDS.

Fig. 197.

For ¾ inch and 1 inch pipe.
From 4 to 20 pipes high.

PIPE HOOK.

Fig. 198.

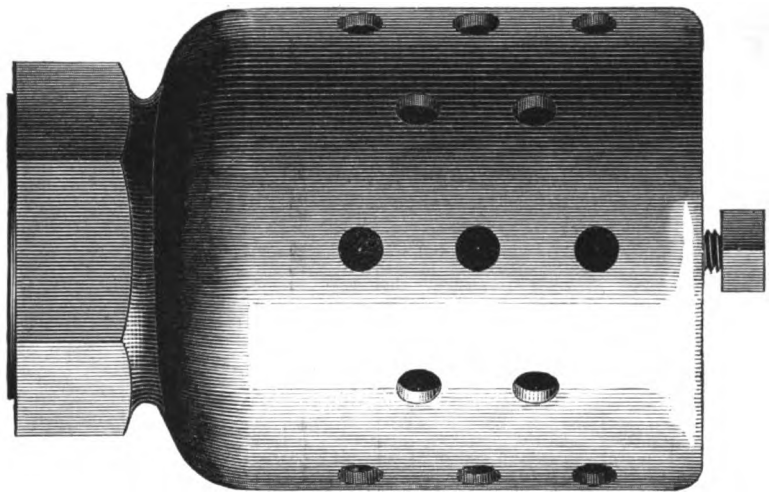


From ¼ inch to 2 inches.

Digitized by Google

FOOT VALVE AND STRAINER.

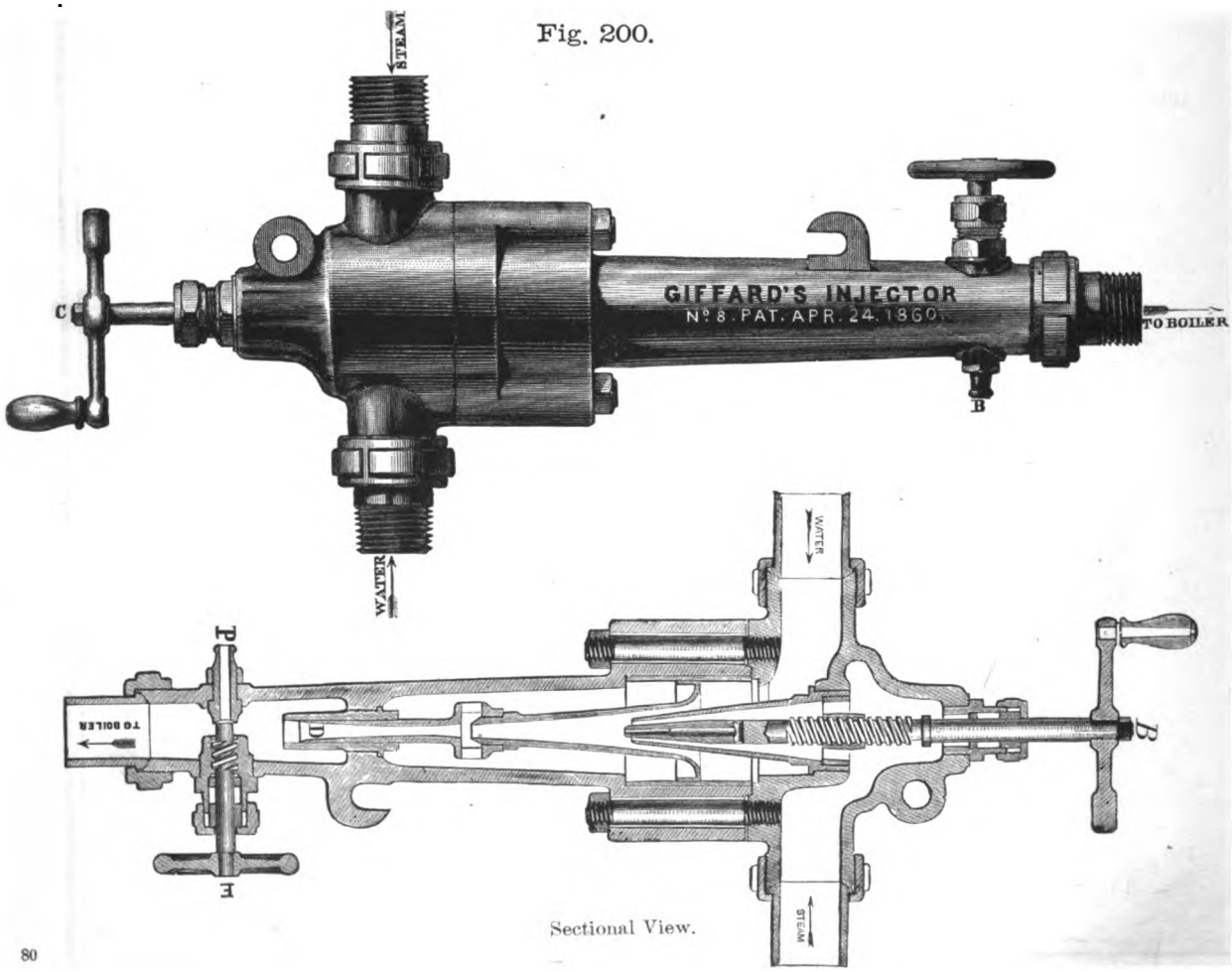
Fig. 199.



For Lead and Copper Pipe, ¼, 1, 1¼, 1½, 2 inches.
For Iron Pipe, ¼, 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6 inches.

GIFFARD'S INJECTOR.

Fig. 200.



Sectional View.

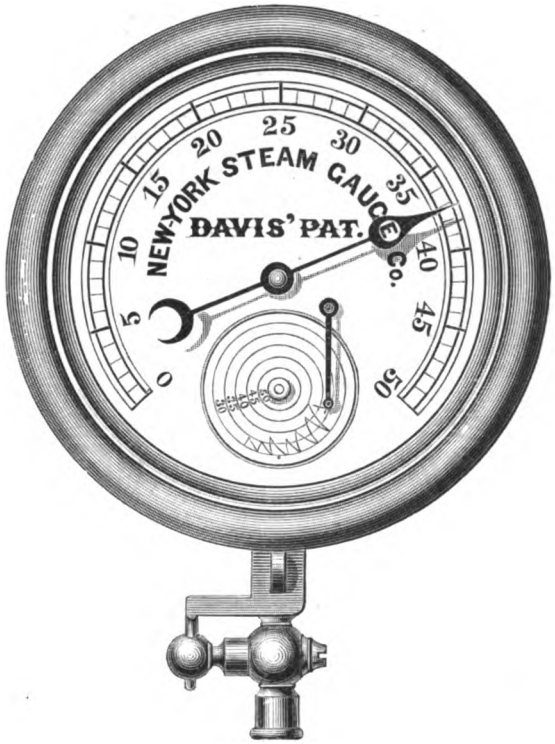
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STEAM GAUGES.

Fig. 201.

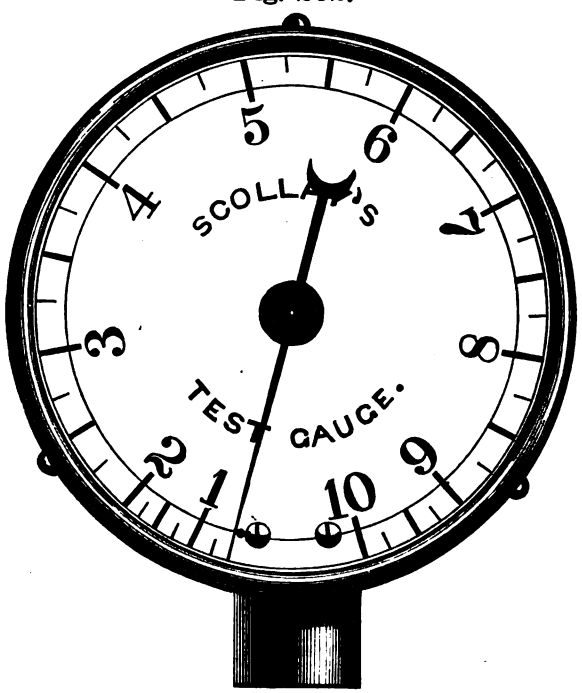
DAVIS' PATENT



RECORDING GAUGE.

Fig. 202.

GAS FITTERS'



TEST GAUGE.

NO MERCURY.

NO RUBBER DIAPHRAM.

Full Size of Gauge.

This Gauge does away with all the inconveniences of the Mercurial Column, such as *Loss of Mercury*, *Leakage*, *Breakage of Tubes*, and the necessity of always keeping it in a vertical position.

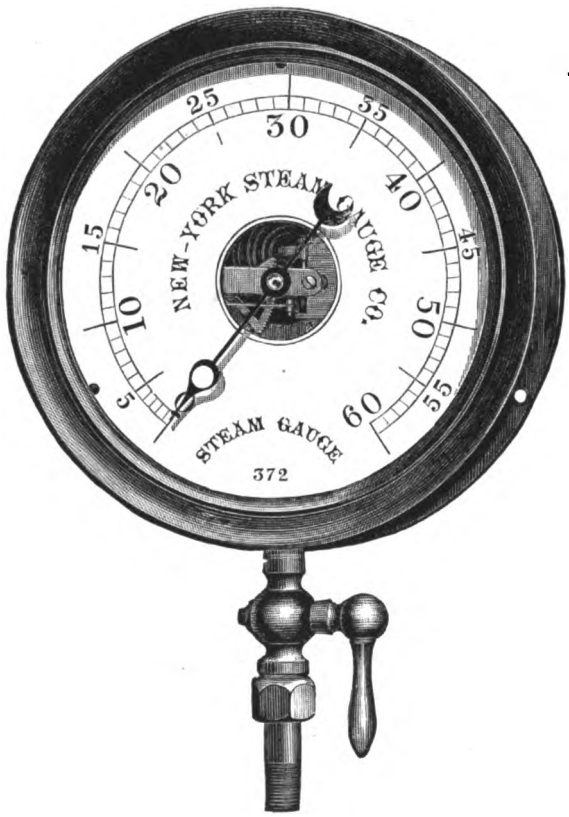
This Gauge can be carried conveniently in the pocket—it is *Accurate*, *Sensitive*, *Durable*, and will work in any position; it has a cover to protect the face, and screen to prevent the accumulation of dust, etc., behind the spring.

Digitized by Google

STEAM GAUGES.

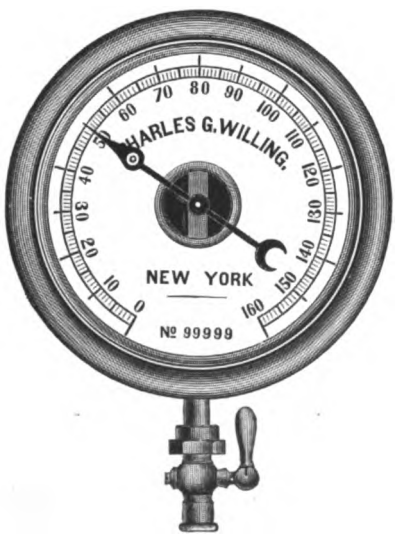
NEW YORK STEAM GAUGE.

Fig. 203.



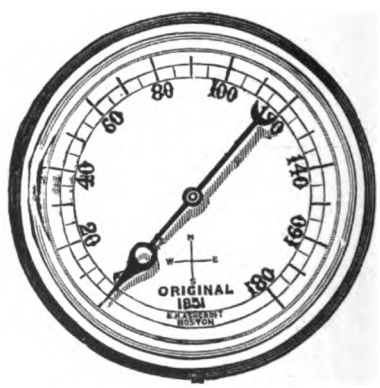
WILLING'S STEAM GAUGE.

Fig. 204.



ASHCROFT'S STEAM GAUGE.

Fig. 205.

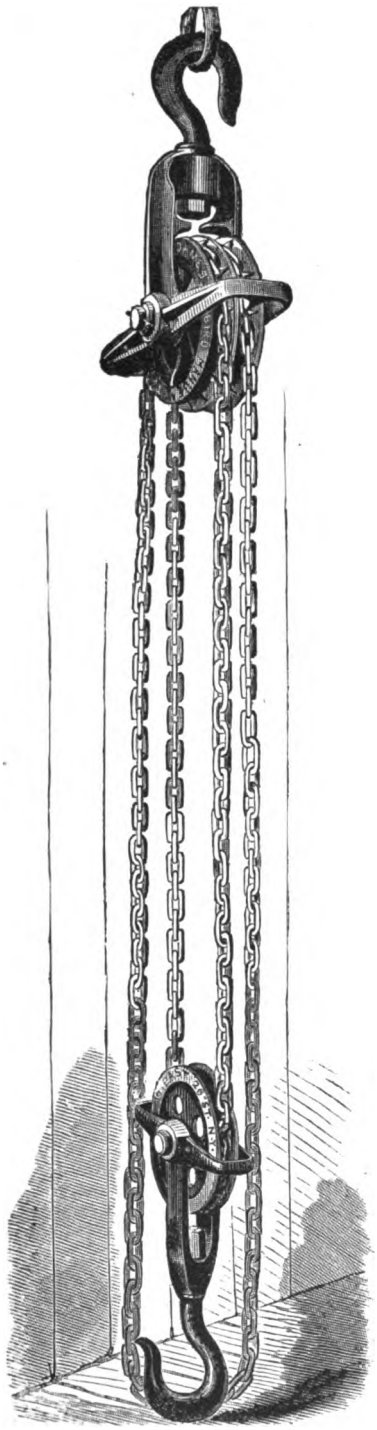


A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

DIFFERENTIAL PULLEY BLOCKS.

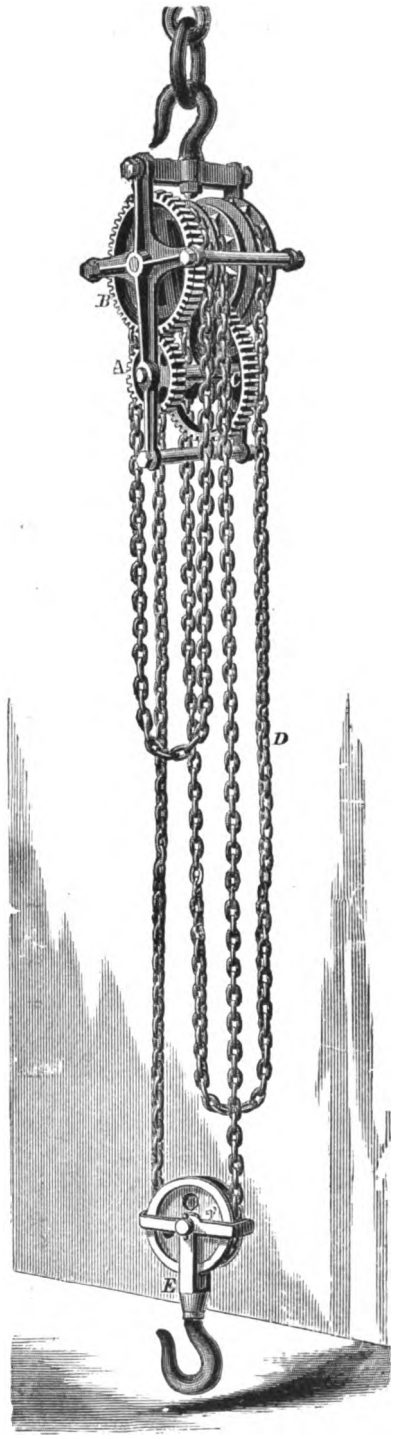
Fig. 205½.



One man can hoist from 500 to 1000 lbs., and the Block will hold the weight at any point.

Sizes, ½, 1, 1½, 2 tons.

Fig. 206.



One man can raise from 1 to 3 tons, and the Block will hold the weight at any point.

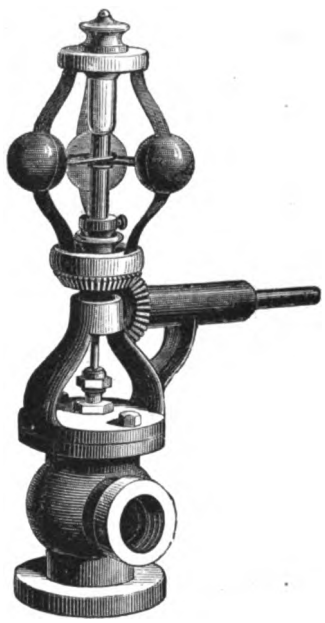
Sizes, 1, 2, 3, 4, 5, 6 tons.

STEAM ENGINE GOVERNORS.

PICKERING'S IMPROVED SPRING GOVERNOR.

FINISHED AND PLAIN.

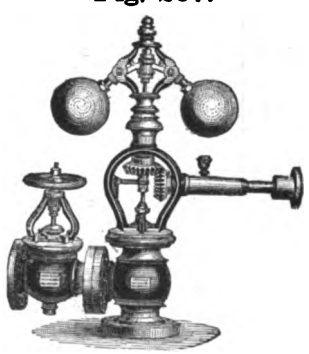
Fig. 206½.



Size of Pipe, ¾, 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 5, 6, 7, 8, 10 inches.

JUDSON'S GOVERNOR.

Fig. 207.



Size of Pipe, ¾. 1, 1¼, 1½, 2, 2½, 3, 3½, 4, 4½, 5, 6, 7, 8, 9 inches.

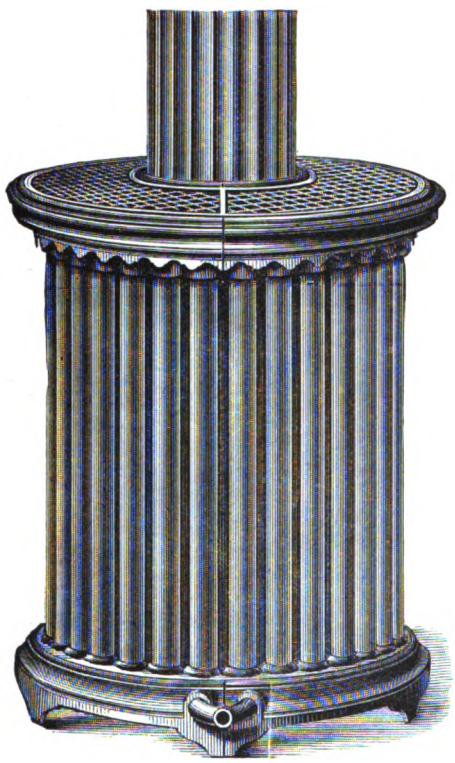
Digitized by Google

CARR'S POSITIVE CIRCULATING RADIATORS.

(For Sectional View and Description, see Page 13.)

CIRCULAR IN HALVES FOR COLUMN.

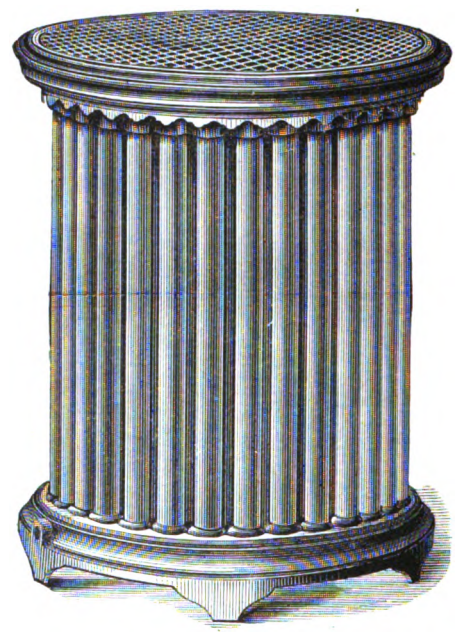
Fig. 208.



No.	Number of Tubes.	Diameter.	Diameter of opening for Column.	Size of Steam Pipe.	Size of Return Pipe.
		Ft. Ins.	Inches.	Inches.	Inches.
1	16	1 4½	8	1	¾
2	40	1 10	8	1	¾
3	72	2 3	8	1¼	1
4	112	2 8½	8	1¼	1
5	24	1 10	12	1	¾
6	56	2 3	12	1¼	1
7	96	2 8½	12	1¼	1
8	144	3 2	12	1½	1¼
9	200	3 7½	12	1½	1¼
10	82	2 3	16	1	¾
11	72	2 8½	16	1¼	1
12	120	3 2	16	1½	1¼
13	176	3 7½	16	1½	1¼

CIRCULAR.

Fig. 209.



No.	Number of Tubes.	Diameter of Base.	Size of Steam Pipe.	Size of Return. Pipe.
		Ft. Ins.	Inches.	Inches.
1	16	1 4½	1	¾
2	24	1 4½	1	¾
3	24	1 10	1	¾
4	32	2 3	1¼	1
5	40	1 10	1	¾
6	40	2 8½	1¼	1
7	48	3 2	1½	1¼
8	56	2 3	1	¾
9	56	3 7½	1½	1¼
10	72	2 3	1¼	1
11	72	2 8½	1¼	1
12	88	3 2	1½	1¼
13	96	2 8½	1¼	1
14	104	3 7½	1½	1¼
15	112	2 8½	1¼	1
16	120	3 2	1½	1¼
17	144	3 2	1½	1¼
18	144	3 7½	1½	1¼
19	160	3 2	1½	1¼
20	176	3 7½	1½	1¼
21	200	3 7½	1½	1¼
22	216	3 7½	1½	1¼

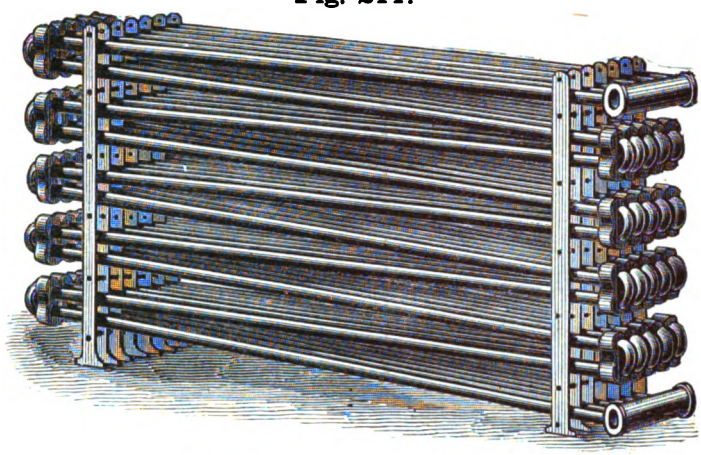
HEIGHT 36 INCHES.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

RETURN BEND, OR BOX COILS.

Fig. 211.



Length of Coil, ¾ or 1 inch pipe, 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 12 feet.

ORNAMENTAL SCREENS.

FOR COILS OF STEAM PIPE.

Height under Marble Top, 31⅛ inches.

No. 1.

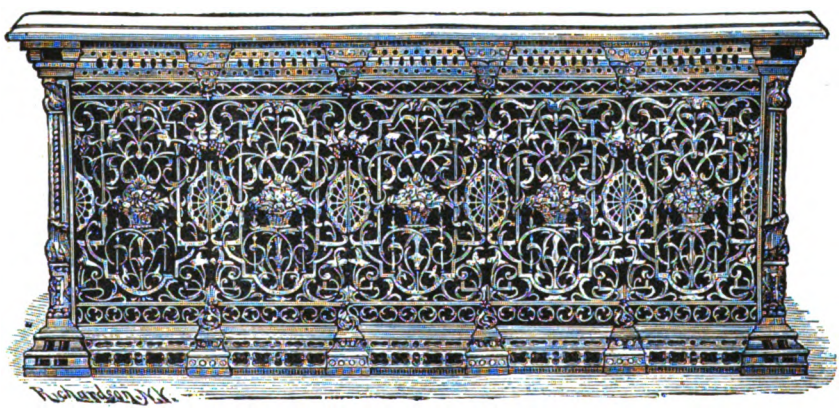


Fig. 212.

Height under Marble Top, 32 inches.

No. 2

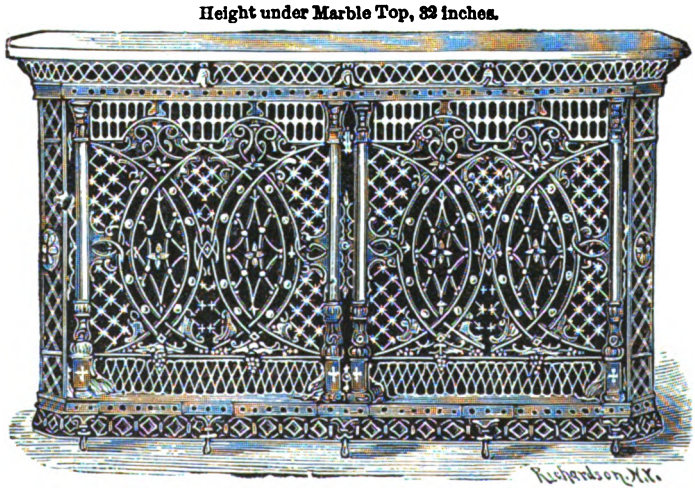


Fig. 213.

Gold Bronzed. Artistic Bronze. Grained to order. White. Chocolate tipped with Bronze. Chocolate with figures Bronzed in Relief. Unfinished Iron. Marble Top.

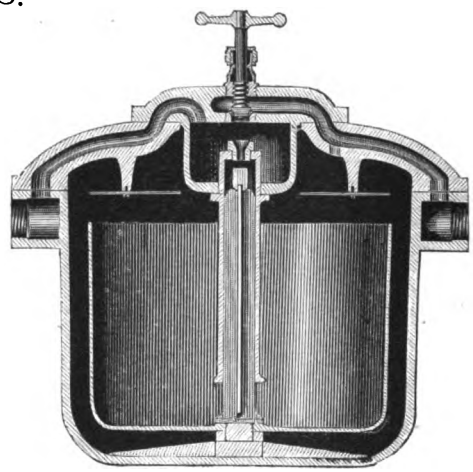
Digitized by Google

STEAM TRAPS

FOR EXHAUSTING THE WATER OF CONDENSATION.

NASON'S.

Fig. 214.

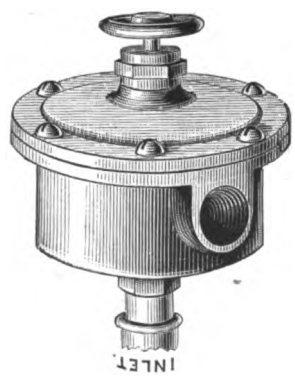


Number,	1.	2.	3.	4.	5.	
Size of Pipe Connections,	¼	⅜	1	1¼	1½	inches.
Diameter of Cylinder,	8	10½	12	14	18	"
Height to top of Cover,	8	10	12	14	15½	"
Greatest number of square feet to which it should be applied,	350	900	1400	2000	3500	"

MAXIM STEAM TRAP,

FOR REMOVING AIR & WATER OF CONDENSATION, AND RETAINING THE STEAM IN STEAM APPARATUS.

Fig. 215.



No. 1, will drain 2,000 feet of 1 inch pipe.

No. 2, will drain 5,000 feet of 1 inch pipe.

COIL HEATER,

FOR

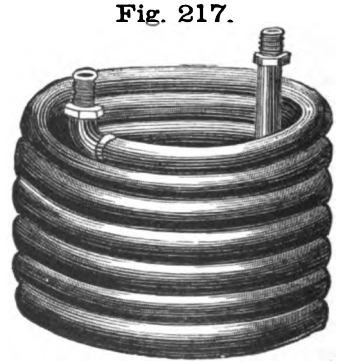
HEATING FEED-WATER FOR BOILERS.

Fig. 216.

Size of Pipe, ¼, ⅜, 1, 1¼, 1½, 2 inches.

HEATER COIL.

Fig. 217.



Size of Pipe, ¼, ⅜, 1, 1¼, 1½, 2 inches.

A. CARR, MANUFACTURER, NEW YORK.

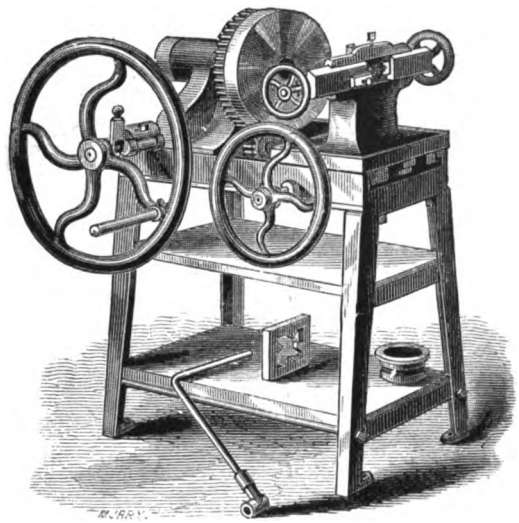
Digitized by Google

STEAM AND GAS FITTERS' TOOLS.

IMPROVED MACHINE

FOR CUTTING AND SCREWING STEAM AND GAS PIPES, BY HAND OR POWER.

Fig. 218.



Cutting and Screwing from ⅛ inch to 2 inch pipe, with Universal Chuck, Fly Wheel and Dies, complete.

STOCK PLATES AND DIES.

No. 1, MALLEABLE IRON SCREWING STOCK.

SOLID PLATE AND DIES.

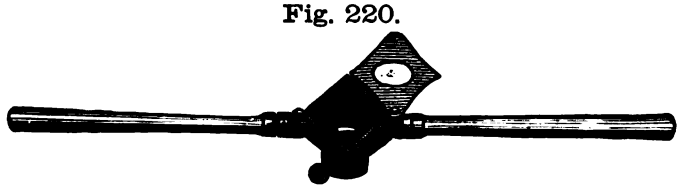
Fig. 219.

With Solid Plate and Dies, cutting ⅛, ¼, ⅜ and ½ inch.

No. 2, MALLEABLE IRON SCREWING STOCK.

WITH WROUGHT IRON SCREW HANDLE.

Fig. 220.



With Solid Dies and Guides, cutting ¼, ⅜, ½, ¾ and 1 inch. Left hand Dies to order.

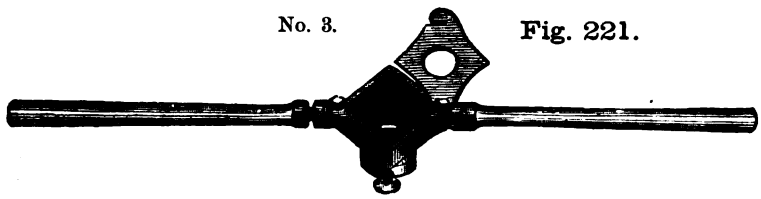
Digitized by Google

STEAM AND GAS FITTERS' TOOLS.

STOCKS, PLATES, DIES, &c

MALLEABLE IRON SCREWING STOCK, WITH WROUGHT IRON SCREW HANDLES.

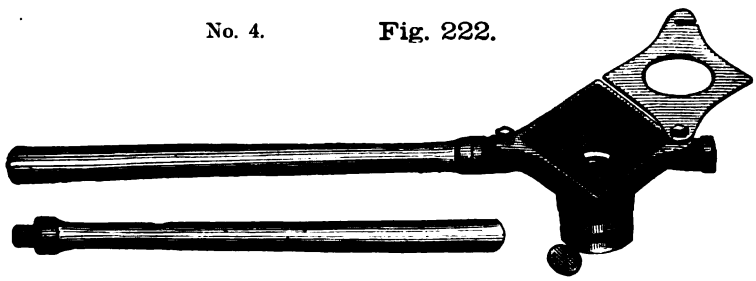
No. 3. **Fig. 221.**



With Solid Dies and Guides, cutting ¾, 1, and 1¼ inch. Left Hand Dies to order. Extra Bushings.

MALLEABLE IRON SCREWING STOCK, WITH WROUGHT IRON SCREW HANDLES AND DRIVE SCREW.

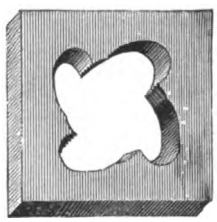
No. 4. **Fig. 222.**



With Solid Dies and Guides, cutting 1¼, 1½, and 2 inches. Left Hand Dies to order. Extra Bushings.
No. 5, With Solid Dies and Guides, cutting 2½ and 3 inches.

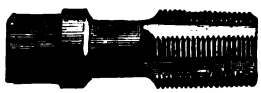
DIE.

Fig. 224.



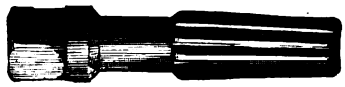
PIPE TAP.

Fig. 223.



REAMER.

Fig. 225.

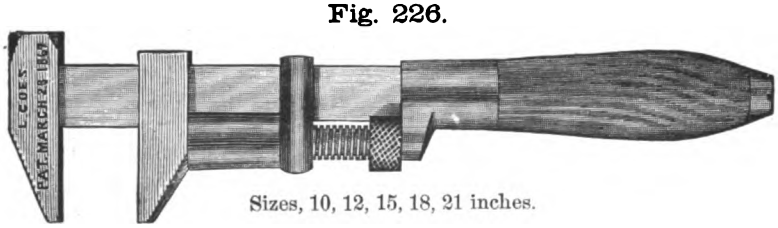


Size of Taps and Dies, Right or Left Hand, ⅛, ¼, ⅜, ½, ¾ 1, 1¼, 1½, 2, 2½, 3 inches.

SCREW WRENCHES.

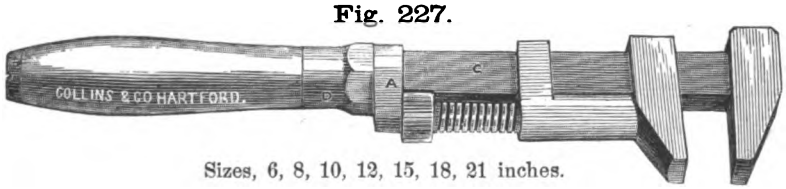
BLACK.

Fig. 226.



Sizes, 10, 12, 15, 18, 21 inches.

Fig. 227.



Sizes, 6, 8, 10, 12, 15, 18, 21 inches.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STEAM AND GAS FITTERS' TOOLS.

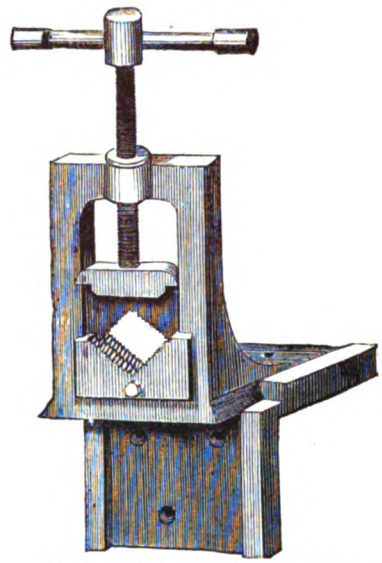
PIPE VISE.

Fig. 229.

No. 1, holds pipe from $\frac{1}{8}$ to $1\frac{1}{4}$ inch.
" 2, " " " $\frac{1}{8}$ " 2 "
" 3, " " " $\frac{1}{4}$ " 3 "

PIPE VISE.

Fig. 230.



No. 1, holds pipe from $\frac{1}{8}$ to 2 inch.
" 2, " " ". $\frac{1}{4}$ " 3 "
" 3, " " " $\frac{1}{2}$ " 4 "

PATENT SCROLL DIE.

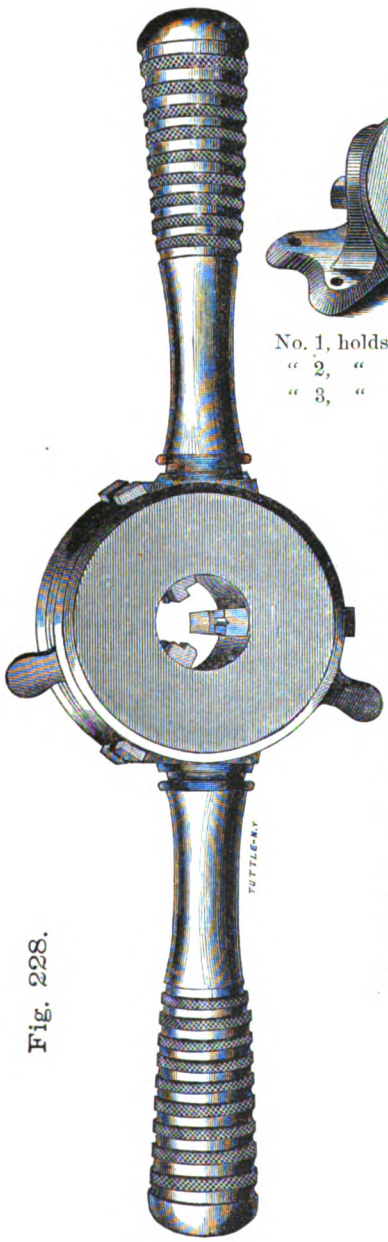
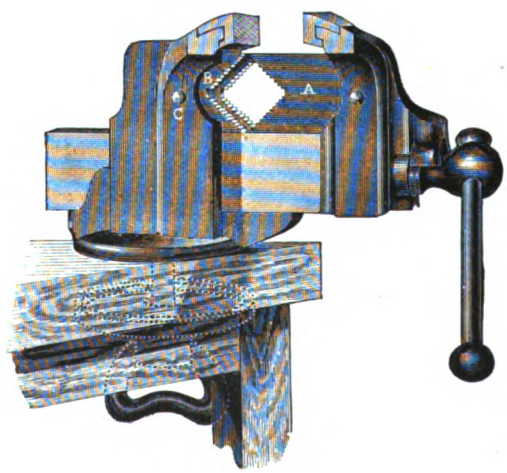


Fig. 228.

For Threading Brass Pipe of all sizes, from $\frac{1}{4}$ to $\frac{7}{8}$ inch.

PATENT COMBINATION VISE.

Fig. 231.



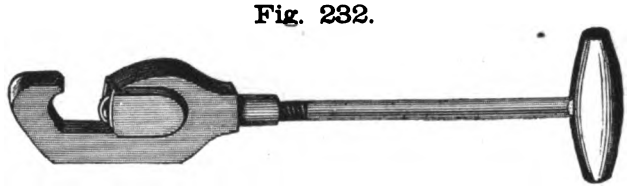
No. 1, holds pipe from 1 to 2 inch.
" 2, " " " $\frac{1}{4}$ " 3 "

Digitized by Google

STEAM AND GAS FITTERS' TOOLS.

STANWOOD'S PATENT PIPE CUTTER.

Fig. 232.



No. 1, Cuts $\frac{1}{8}$ to $\frac{3}{4}$ inch. No. 2, Cuts 1 to 2 inches. No. 3, Cuts $2\frac{1}{2}$ to 3 inches.

ROBES & CHAPMAN'S PATENT LATHE PIPE CUTTER.

Fig. 233.

No. 1, Cuts $\frac{3}{8}$ to $1\frac{1}{4}$ inches. No. 2, Cuts 1 to 2 inches. No. 3, Cuts 2 to $3\frac{1}{2}$ inches.

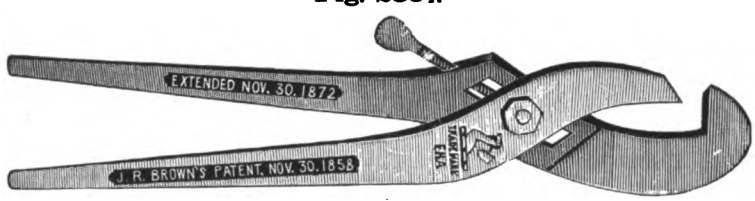
BURNER PLYERS.

Fig. 234.

Fig. 235.

BROWN'S PATENT ADJUSTABLE PIPE TONGS.

Fig. 235½.



No.	1.	2.	3.	4.	5.	6.	7.
Size of pipe,	$\frac{1}{8}$ to $\frac{1}{4}$,	$\frac{3}{8}$ to $1\frac{1}{4}$,	1 to 2,	$1\frac{1}{2}$ to 3,	$2\frac{1}{2}$ to 4,	3 to 5,	4 to 7 inches.

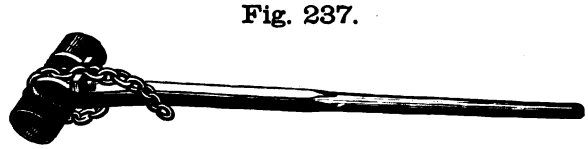
PIPE TONGS.

Fig. 236.

Size, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4, inches.

ROBBINS' PATENT PIPE WRENCH.

Fig. 237.



No.	2.	3.	4.	5.	6.
Size of pipe,	1 to 2,	$1\frac{1}{2}$ to 4,	2 to 6,	$2\frac{1}{2}$ to 8,	4 to 10 inches.

GAS FITTERS' AUGER.

Fig. 238.

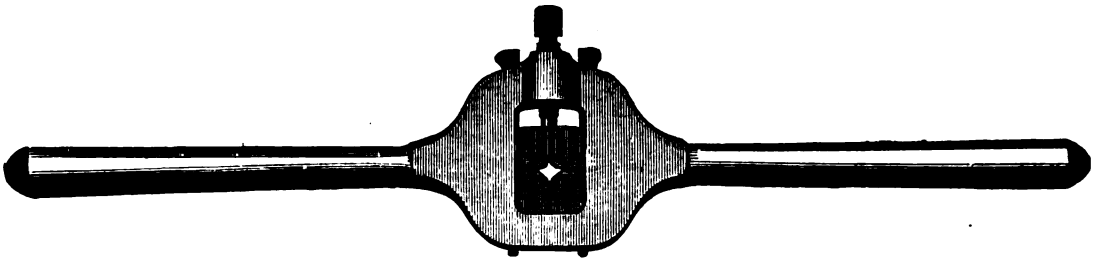
Size of Auger,	$\frac{3}{8}$,	$\frac{4}{8}$,	$\frac{7}{8}$,	$1\frac{1}{8}$,	$1\frac{3}{8}$,	$1\frac{5}{8}$,	2,	$2\frac{1}{2}$ inches.
Size of pipe,	$\frac{1}{4}$,	$\frac{3}{8}$,	$\frac{1}{2}$,	$\frac{3}{4}$,	1,	$1\frac{1}{4}$,	$1\frac{1}{2}$,	2 "

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STEAM AND GAS FITTERS' TOOLS.

Fig. 239.

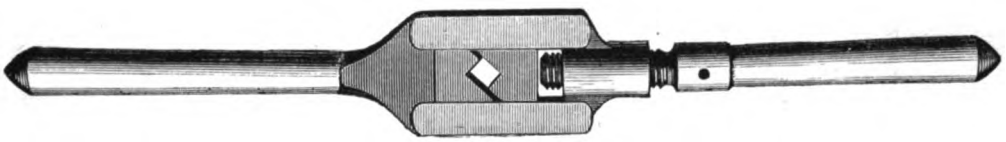


SCREW PLATES AND DIES.

Size A, 1 Screw Plate, 3 set Dies, ¼ to ½ inch inclusive. | Size C, 1 Screw Plate, 4 set Dies, ½ to ⅞ inch, inclusive.
" B, 1 " " 4 " ⅜ to ¾ " " | " D, 1 " " 4 " ⅞ to 1¼ " "

The above List includes Plates and Dies only.

Fig. 240.



PATENT ADJUSTABLE TAP WRENCHES.

Size A, Fitting Taps from ¼ to ⅝ inch diameter, inclusive.
" B, " " ½ to 1 " " "
" C, " " ⅞ to 1¼ " " "

Diameter.	No. Threads to inch.
1-4	16, 18 & 20
5-16	16 & 18
3-8	14, 16 & 18
7-16	14 & 16
1-2	12, 13 & 14
9-16	12 & 14
5-8	10, 11 & 12
11-16	11 & 12
3-4	10 & 12
13-16	10
7-8	9 & 10
15-16	9
1	8
1 1-8	7 & 8
1 1-4	7
1 3-8	6
1 1-2	6
1 5-8	5
1 3-4	5
1 7-8	4½
2	4½

VOLUTE TAPS.

MACHINISTS' HAND TAPS.

Fig. 241.

TAPER. PLUG. BOTTOMING.

3 Taps to set—Taper, Plug and Bottoming.

WE MAKE THE ABOVE A THIRTY-SECOND OVER SIZE FOR ROUGH IRON.

Digitized by Google

STEAM AND GAS FITTERS' TOOLS.

RATCHETS.

Fig. 242.

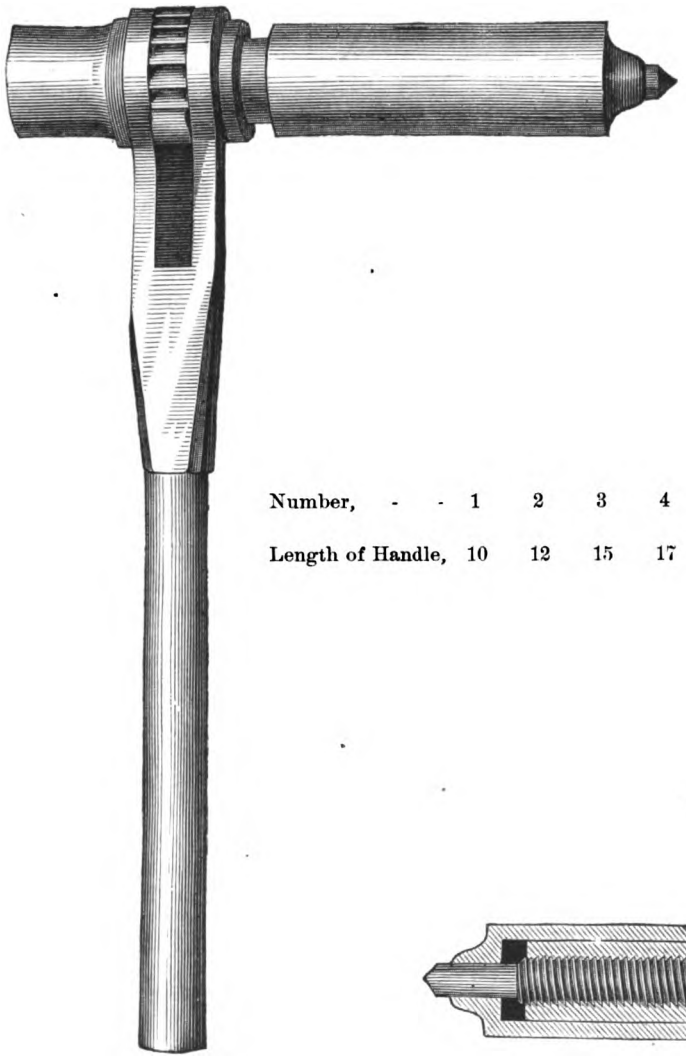
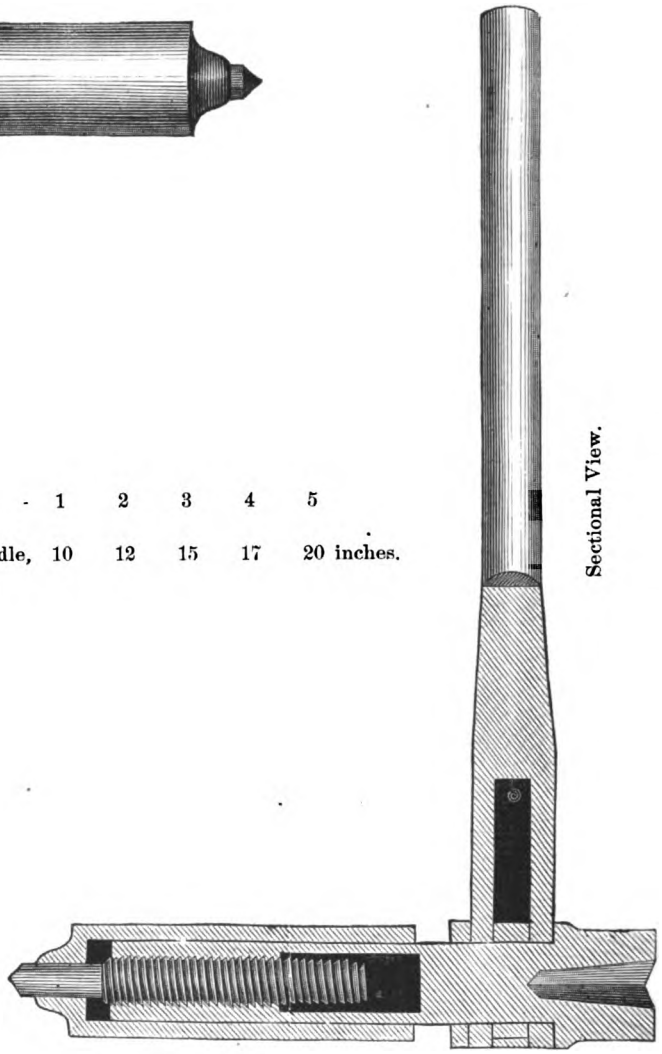


Fig. 243.

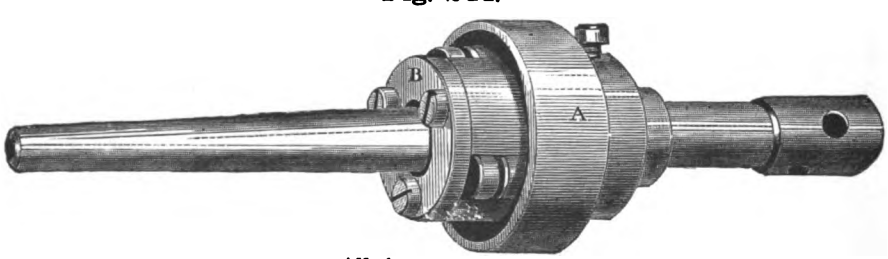


Sectional View.

Number,	1	2	3	4	5
Length of Handle,	10	12	15	17	20 inches.

DUDGEON'S TUBE EXPANDERS.

Fig. 244.



All sizes.

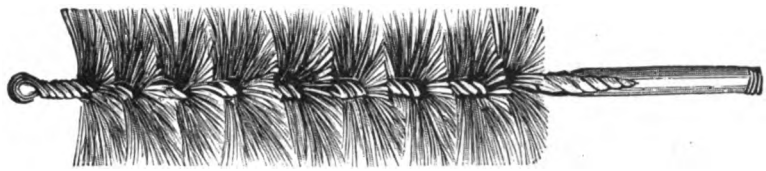
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

FLUE BRUSHES.

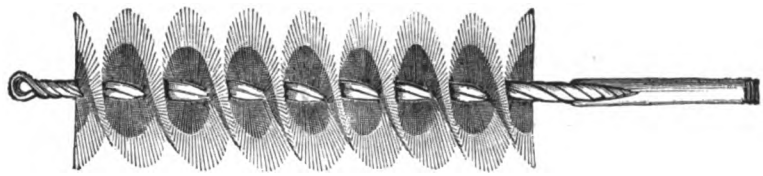
WHALEBONE.

Fig. 245.



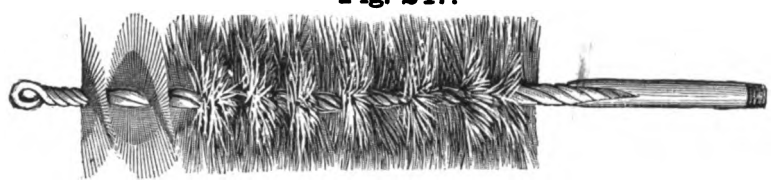
PATENT STEEL WIRE.

Fig. 246.



PATENT COMBINATION BONE AND STEEL WIRE.

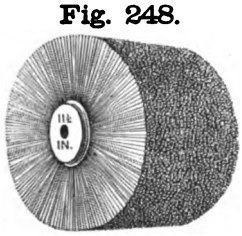
Fig. 247.



Sizes, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼ 3½, 4, 5, 6, 7 inches.

COMMON WHALEBONE FLUE BRUSH.

Fig. 248.



CHRISTOFFEL'S PATENT ELLIPTIC BOILER TUBE SCRAPERS.

Fig. 248½.

Fig. 249.

Fig. 249½.

Sizes, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 5¾ 6 inches.

SCOTCH GAUGE GLASSES FOR WATER GAUGES.

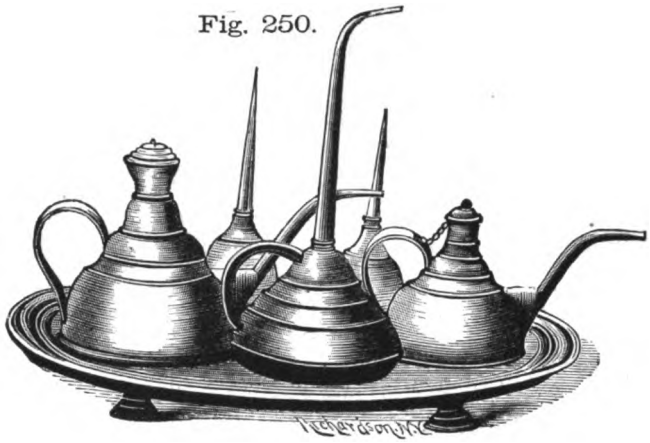
Sizes,	¼x10	¼x11	¼x12	¼x13	¼x14	¼x15	¼x16	⅜x10
	⅜x11	⅜x12	⅜x13	⅜x14	⅜x15	⅜x16	⅜x17	⅜x18
	⅜x13	⅜x14	⅜x15	⅜x16	⅜x17	⅜x18	⅜x19	⅜x20
	½x22	½x24	⅝x24	⅝x30	⅝x36	1x24	1x30	1x36

Digitized by Google

OIL CANS.

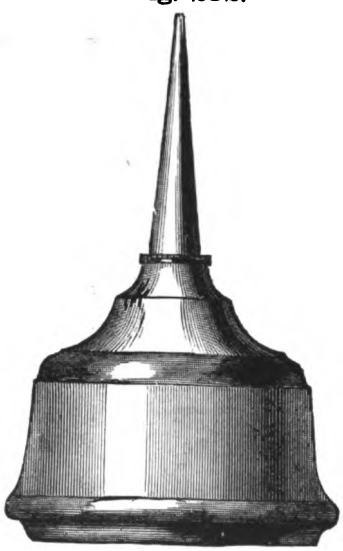
Fig. 250.

No. 1.
5 pieces, with Tray.

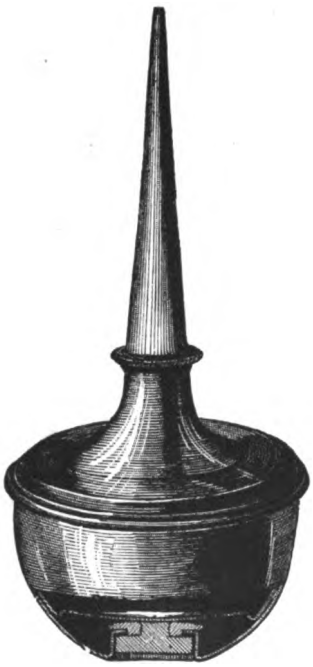


No. 2.
3 pieces, with Tray.

EXTRA BOTTOM RAILROAD OILER.
Fig. 252.

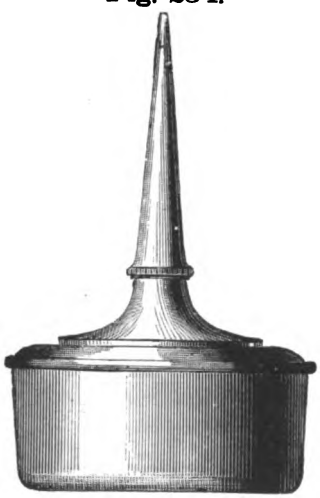


DOUBLE BOTTOM OIL CAN.
Fig. 251.

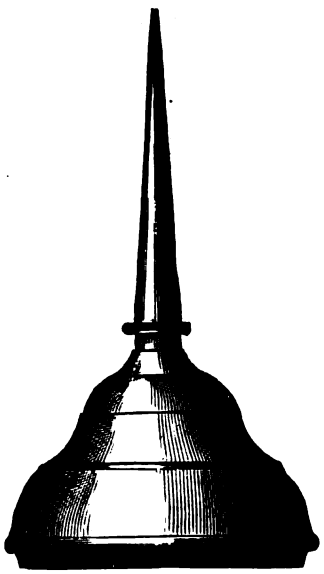


Cannot be upset.

SEAMLESS BOTTOM OILER.
Fig. 254.



EXTRA BOTTOM OILER.
IMPROVED.
Fig. 253.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

GAS FITTERS' PROVING PUMPS.

Fig. 255.

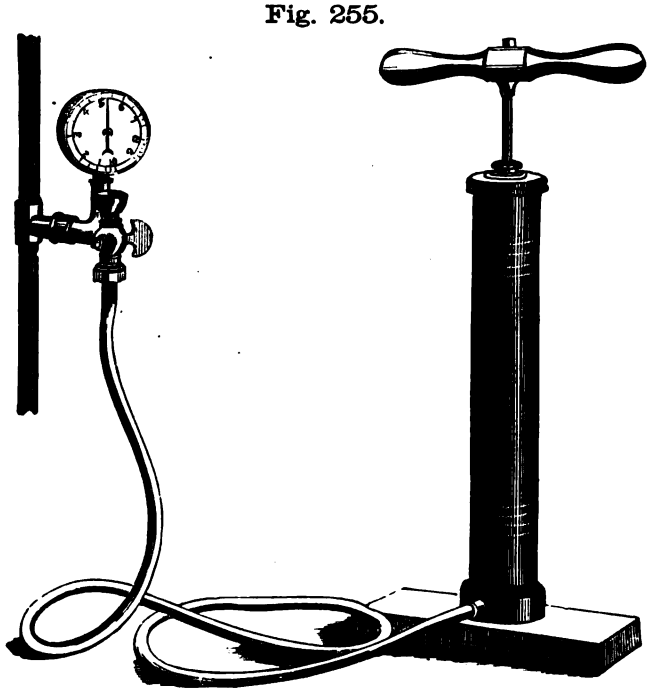
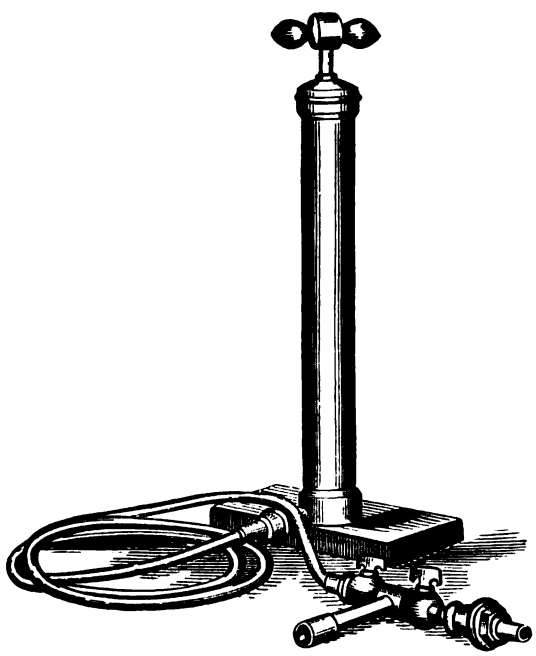


Fig. 256.



TORCH.

Fig. 257.

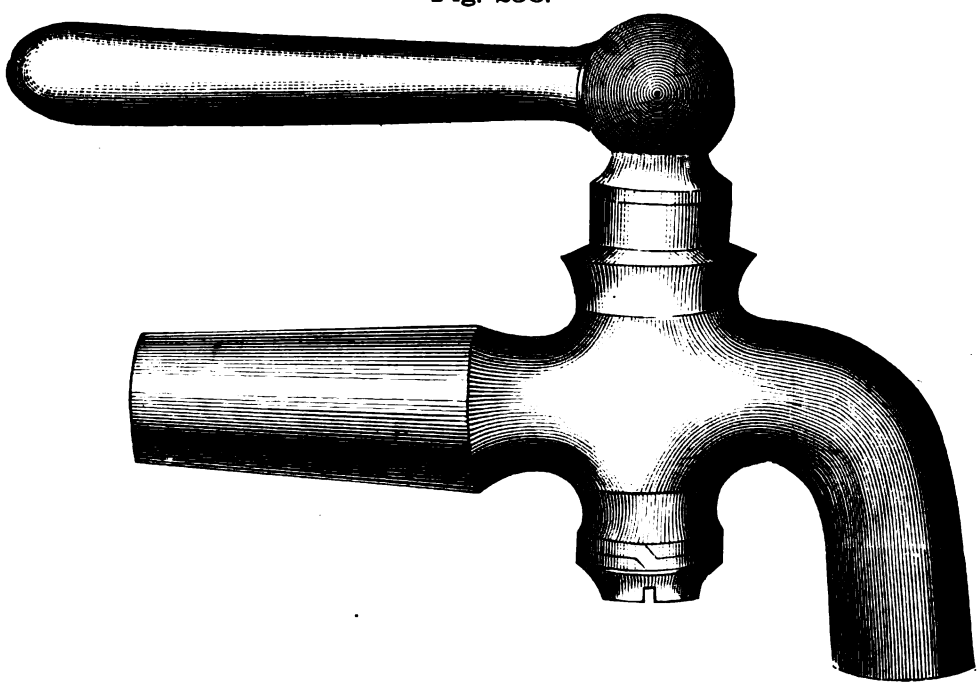
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

PLUMBERS' BRASS WORK.

PLAIN BIBB.

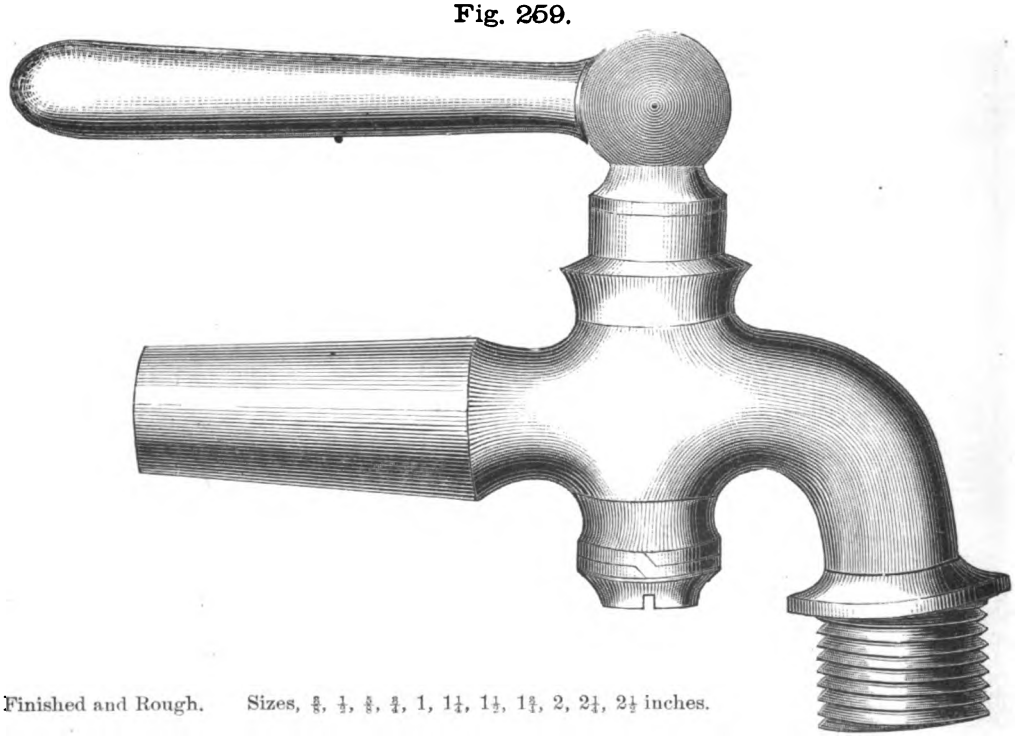
Fig. 258.



Finished, Rough and Plated. Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 3, 3½, 4 inches.

HOSE BIBB.

Fig. 259.



Finished and Rough. Sizes, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½ inches.

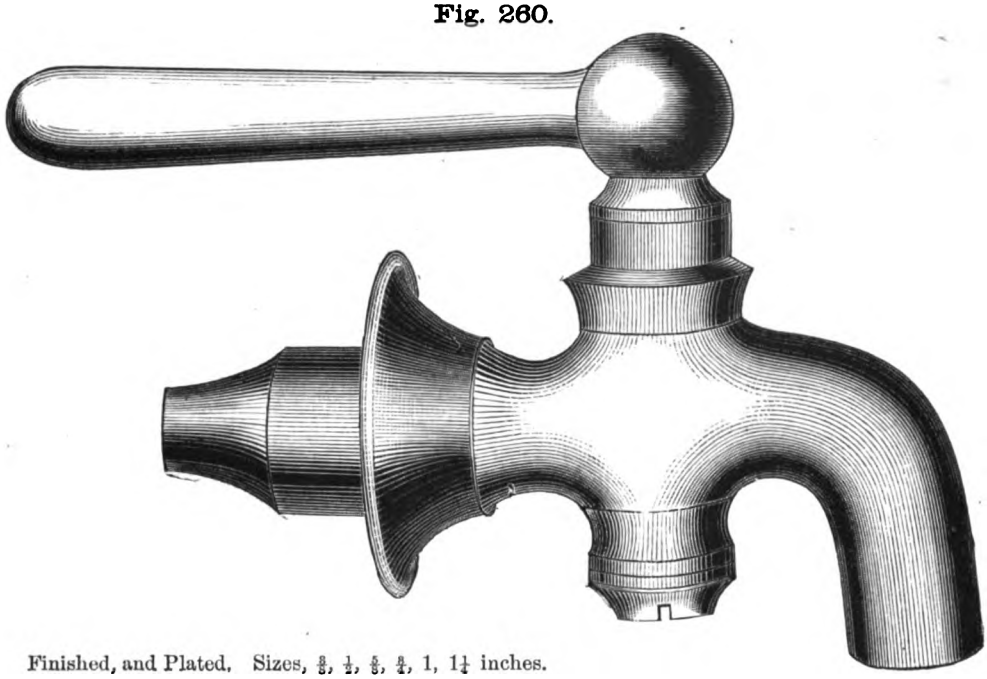
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

PLUMBERS' BRASS WORK.

PLAIN BIBB FLANGE AND THIMBLE.

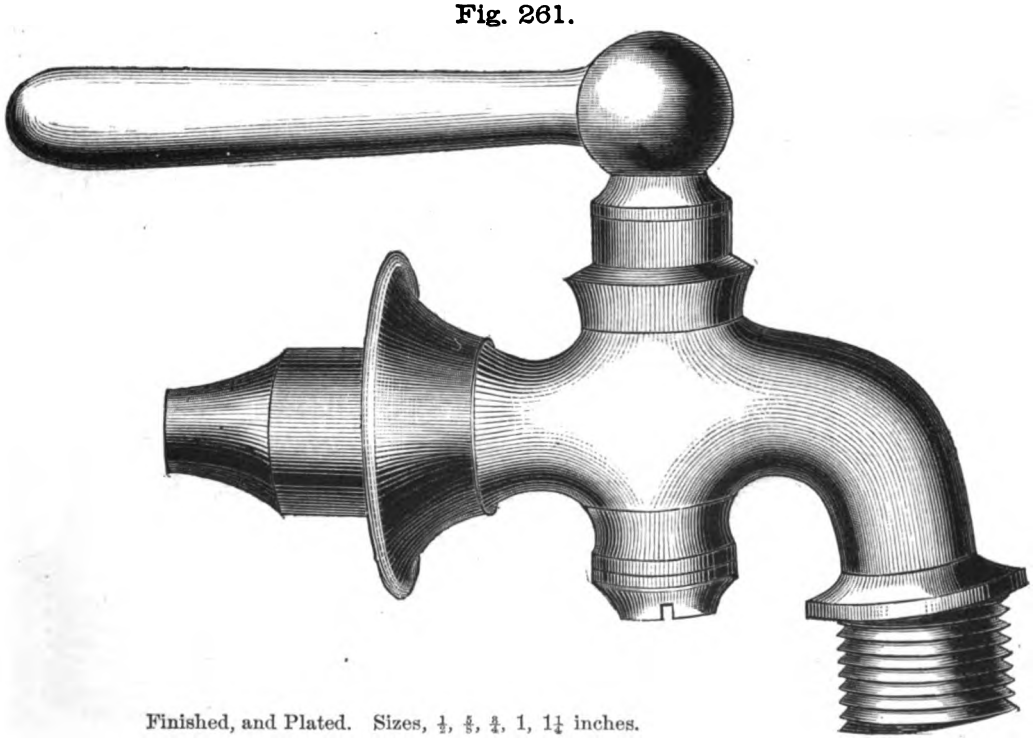
Fig. 260.



Finished, and Plated, Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ inches.

HOSE BIBB, FLANGE AND THIMBLE.

Fig. 261.



Finished, and Plated. Sizes, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ inches.

Digitized by Google

PLAIN BIBB, SCREW SHANK AND SHOULDER,

FOR IRON PIPE.

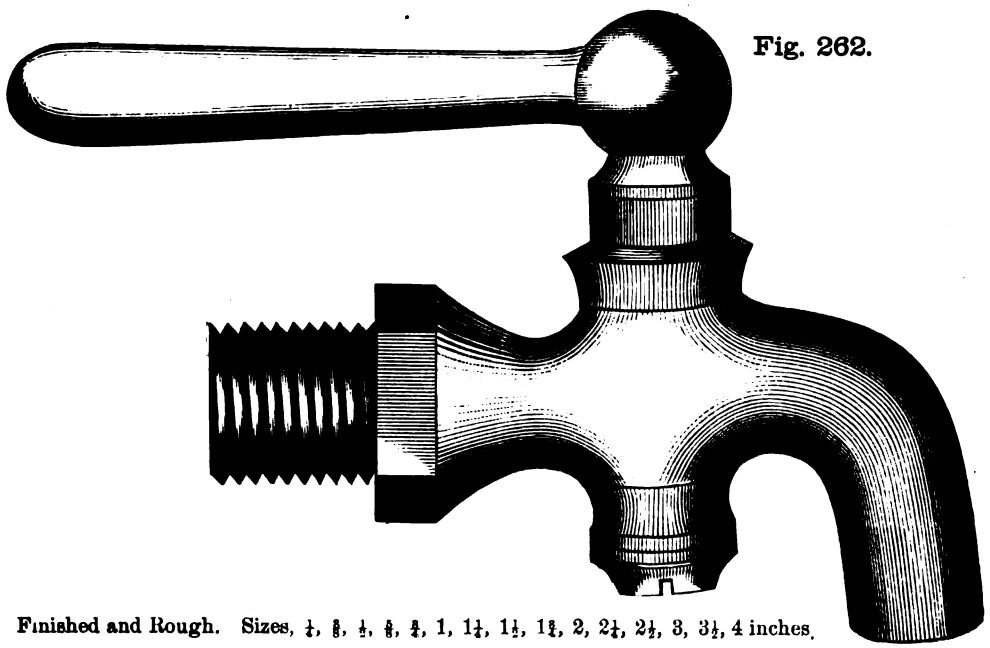


Fig. 262.

Finished and Rough. Sizes, ¼, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 3, 3½, 4 inches.

HOSE BIBB, SCREW SHANK AND SHOULDER,

FOR IRON PIPE.

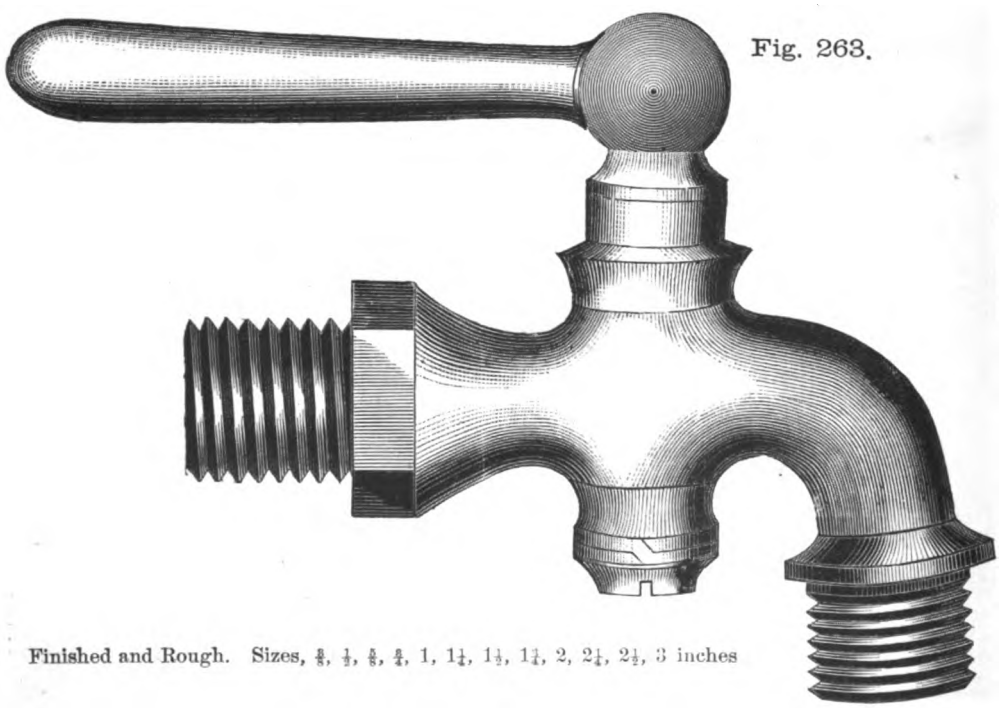


Fig. 263.

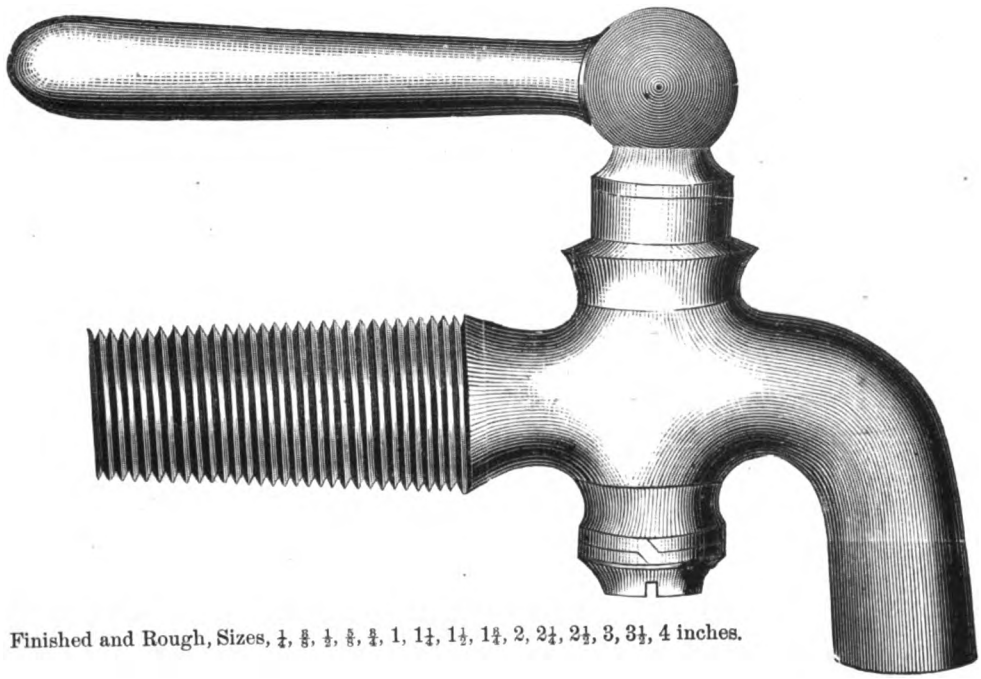
Finished and Rough. Sizes, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 3 inches

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

PLAIN BIBB, SCREW TAIL.

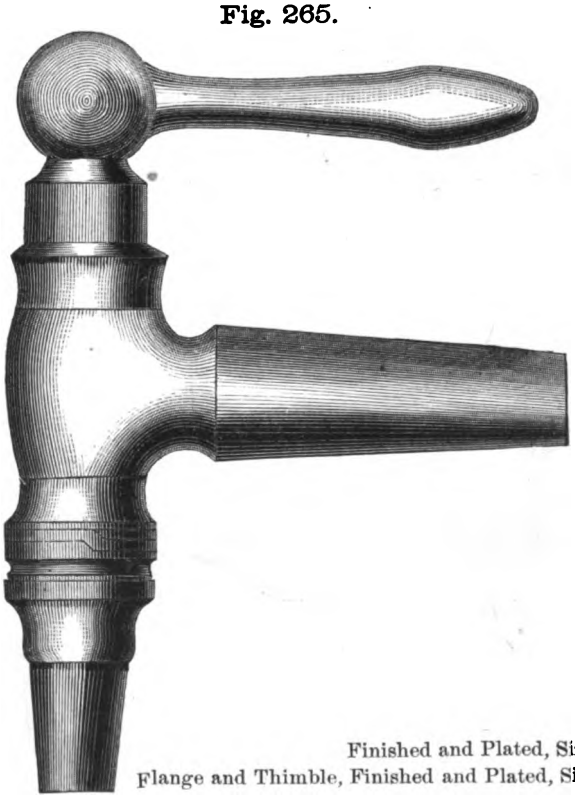
Fig. 264.



Finished and Rough, Sizes, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2, $2\frac{1}{4}$, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4 inches.

BATH BIBB.

Fig. 265.

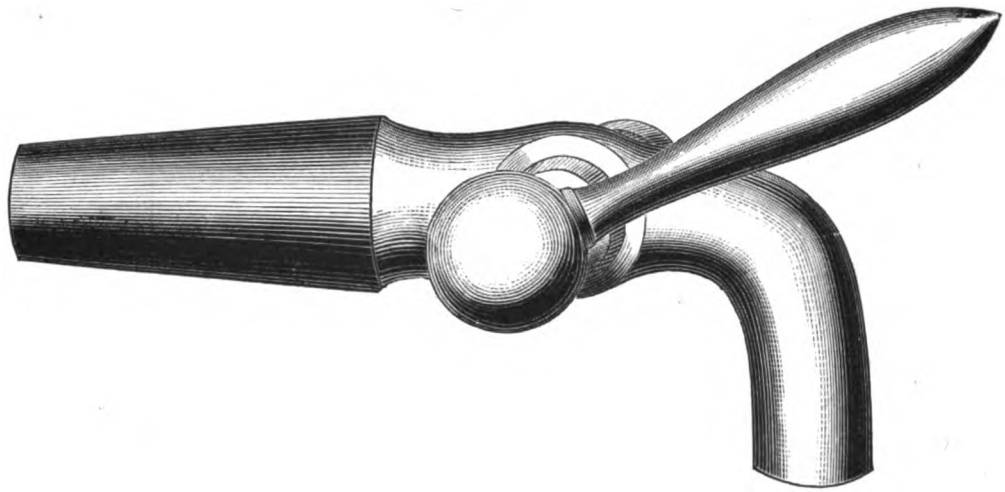


Finished and Plated, Sizes, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.
Flange and Thimble, Finished and Plated, Sizes, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.

Digitized by Google

WASH TRAY BIBBS.

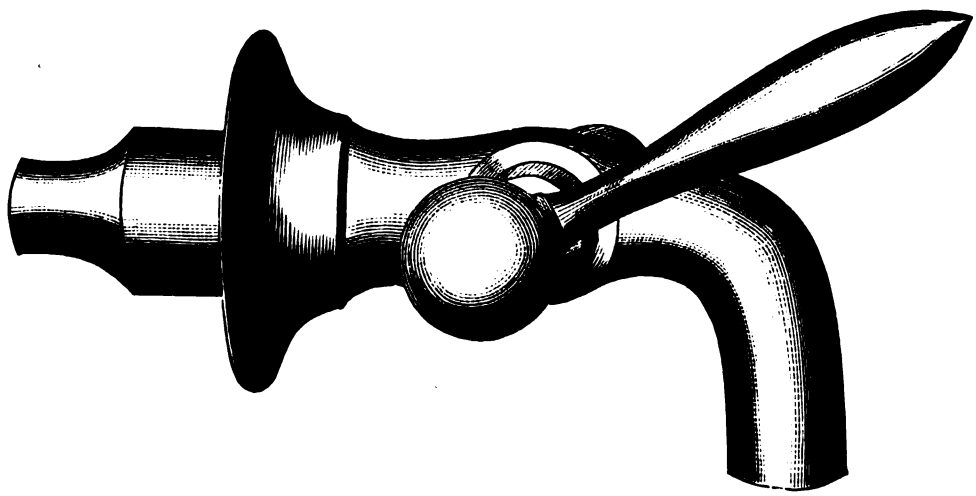
Fig. 266.



Finished, Sizes - - $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch.
Screwed for Iron Pipe, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 "

FLANGE AND THIMBLE.

Fig. 267.



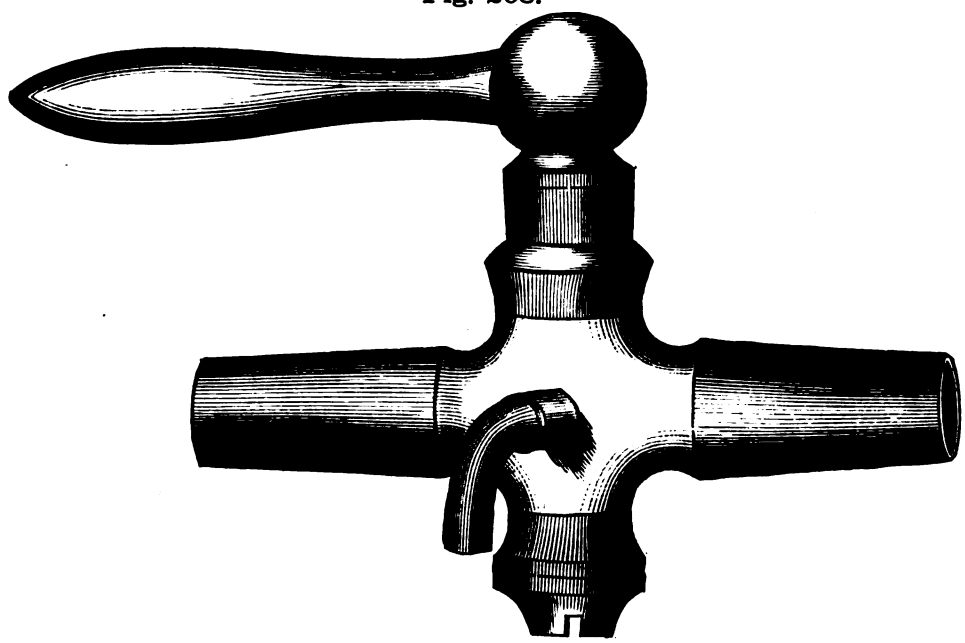
Finished, Sizes, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch.

A. CARF, MANUFACTURER, NEW YORK.

Digitized by Google

STOP AND WASTE, OR SHOWER COCK.

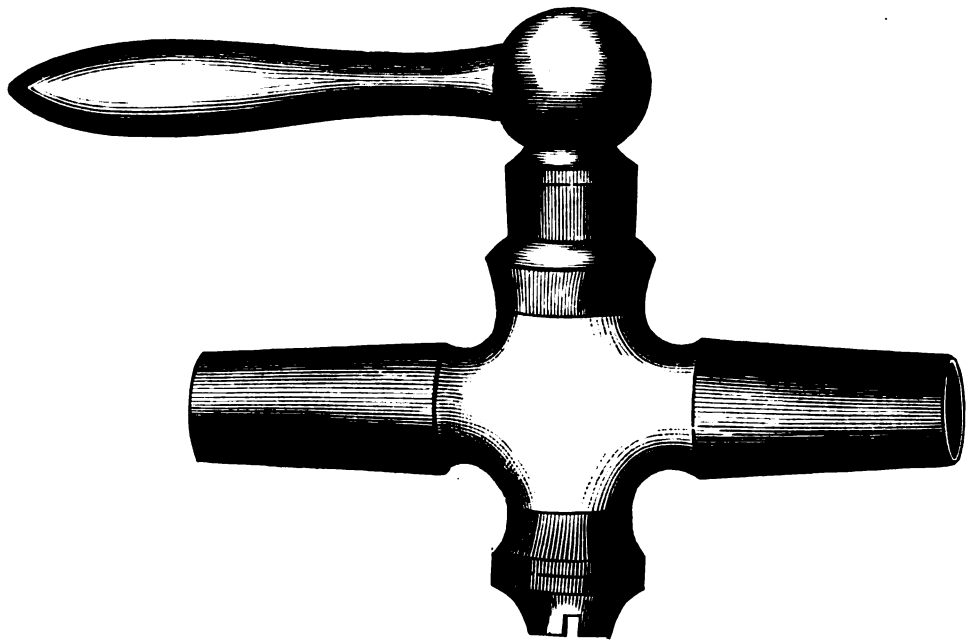
Fig. 268.



Finished and Plated. Size, ½ ⅝, ¾, 1 inch.

PLAIN STOPS.

Fig. 269.

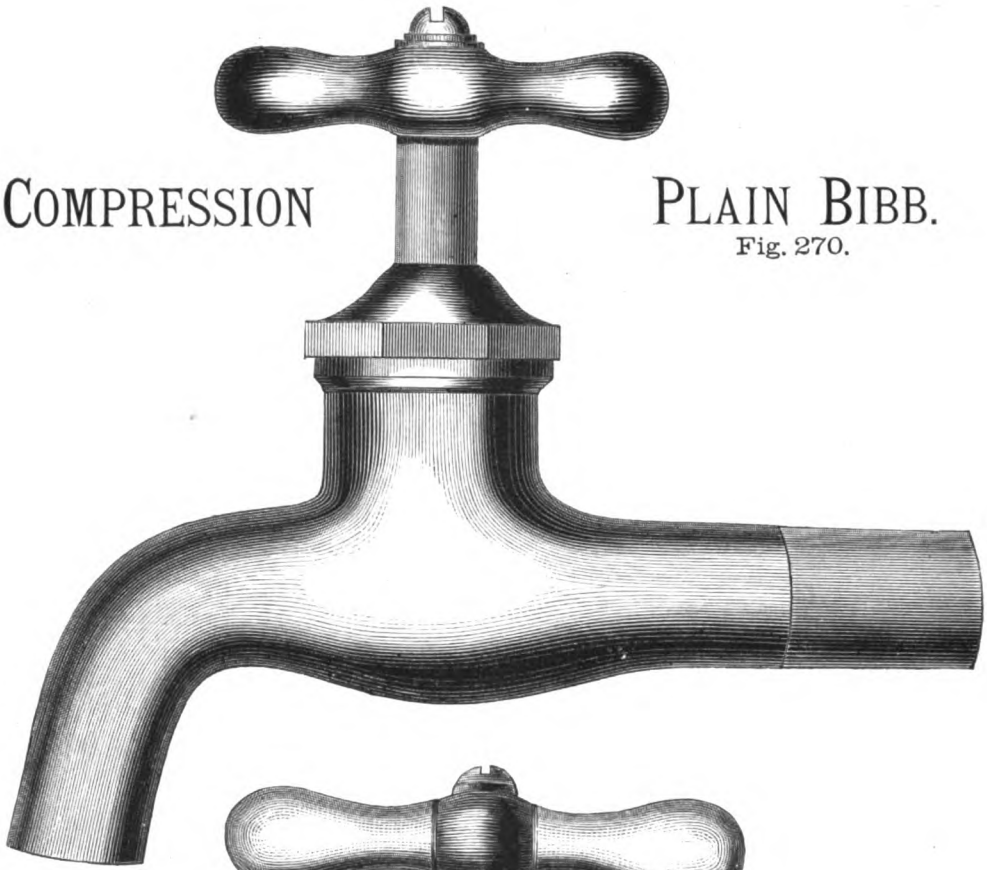


Finished and Plated. Sizes, ½, ⅝, ¾, ⅞, 1, 1¼, 1½, 1¾, 2, 2½, 2¾, 3 inches.

Digitized by Google

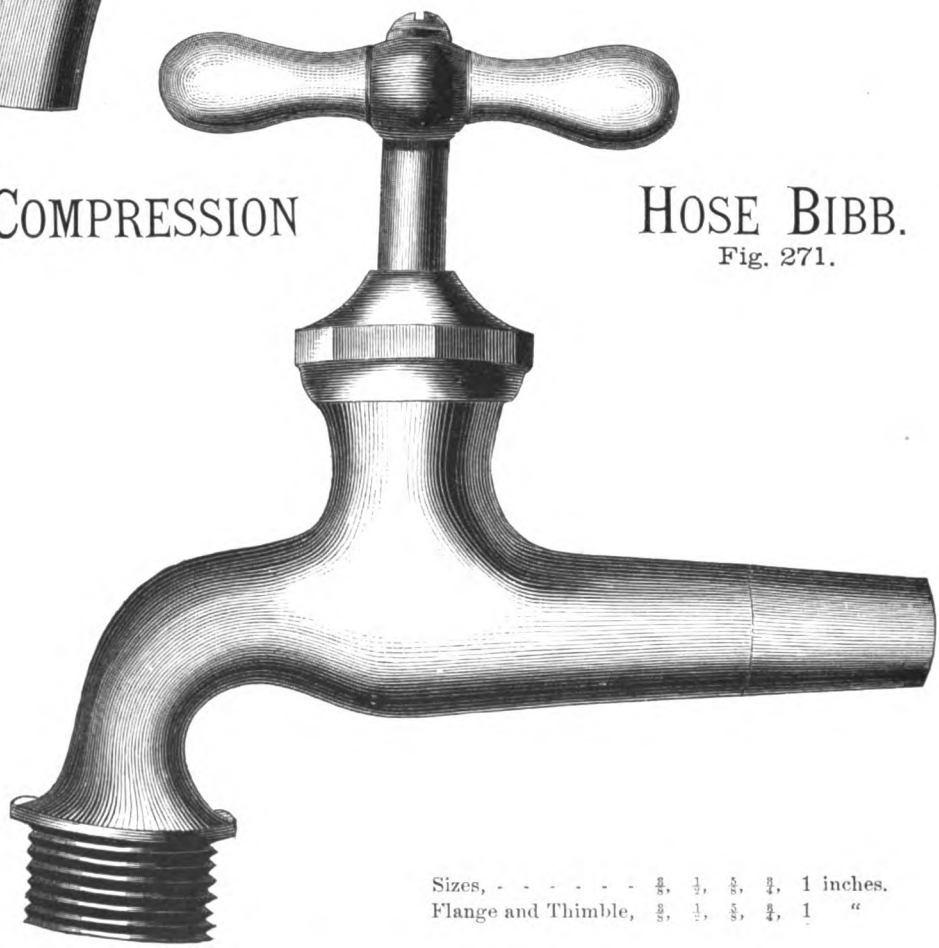
COMPRESSION PLAIN BIBB.

Fig. 270.



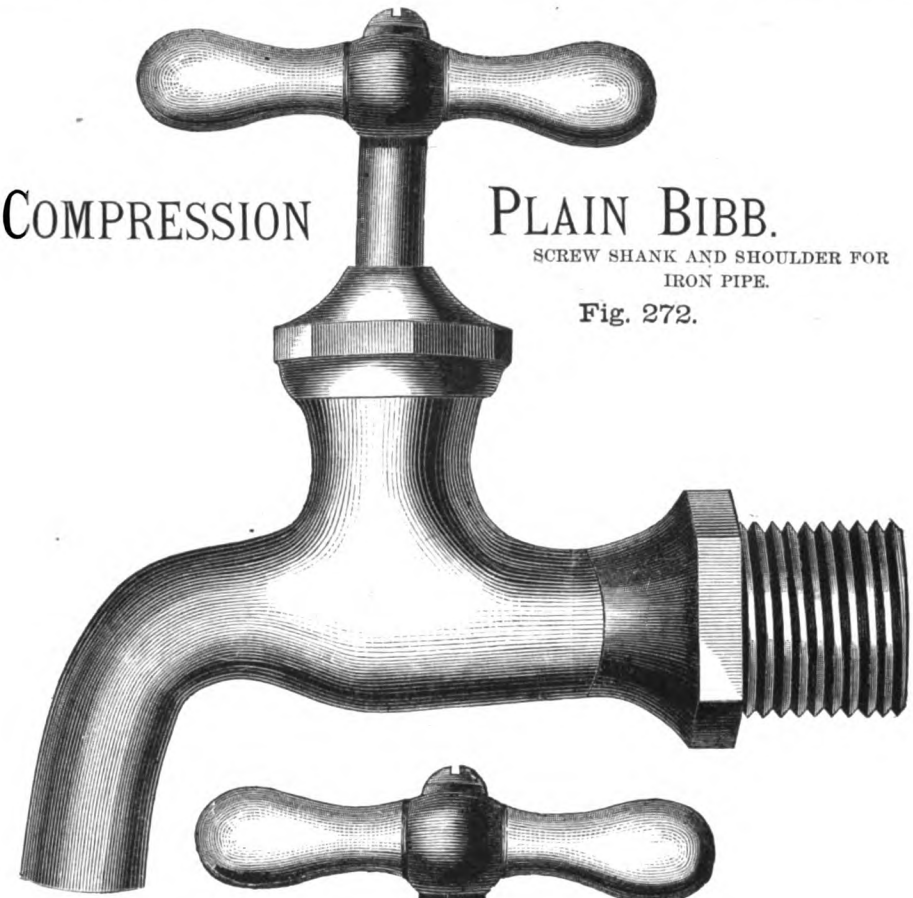
COMPRESSION HOSE BIBB.

Fig. 271.



Sizes, - - - - - - - $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inches.
Flange and Thimble, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 "

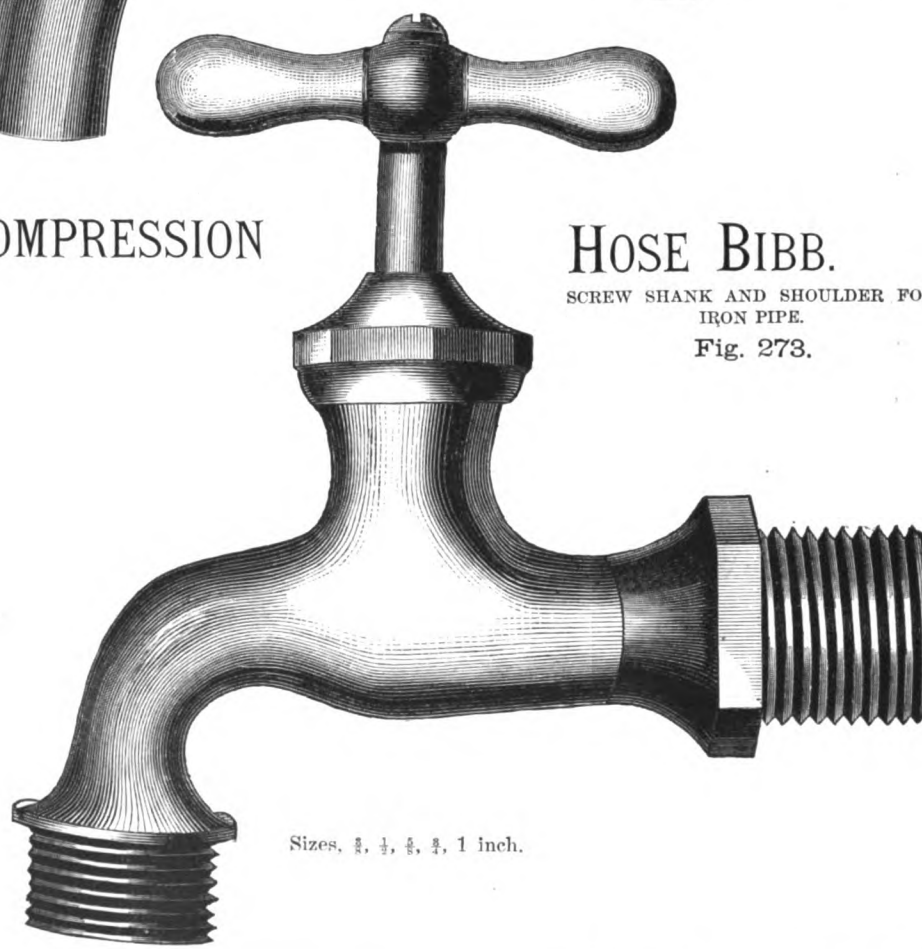
Digitized by Google



COMPRESSION PLAIN BIBB.

SCREW SHANK AND SHOULDER FOR IRON PIPE.

Fig. 272.



COMPRESSION HOSE BIBB.

SCREW SHANK AND SHOULDER FOR IRON PIPE.

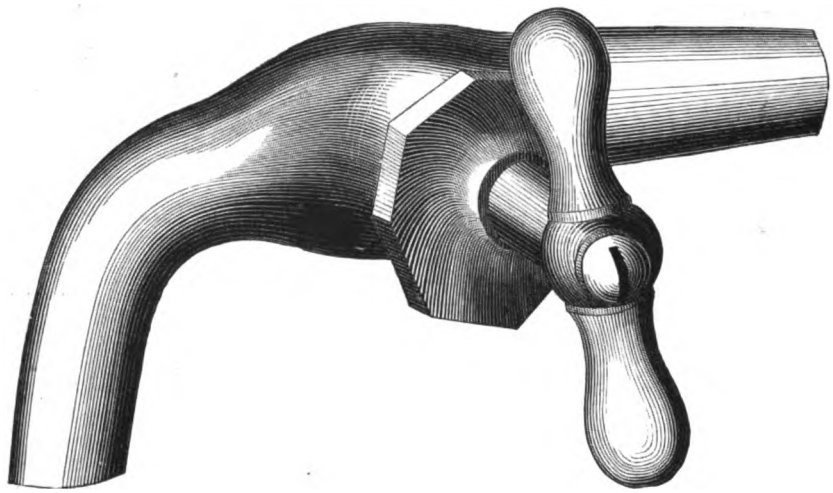
Fig. 273.

Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch.

Digitized by Google

COMPRESSION WASH TRAY BIBB.

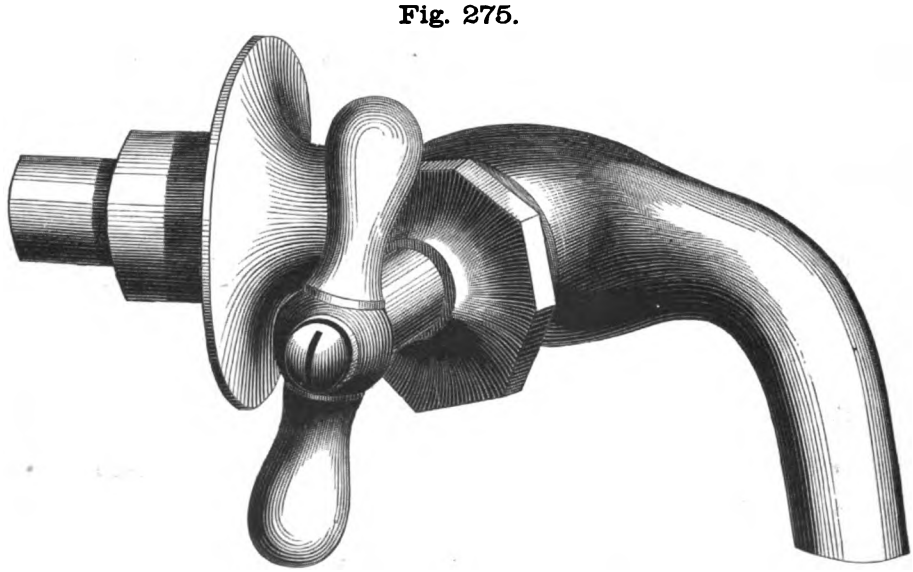
Fig. 274.



Sizes, ½. ⅝, ¾, 1 inch. Screw Shank and Shoulder for Iron Pipe, same sizes.

WASH TRAY COCK, FLANGE AND THIMBLE.

Fig. 275.



Sizes, ½, ⅝, ¾, 1 inch.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

COCKS.

COMPRESSION WASH TRAY, NEW STYLE.

Fig. 276.

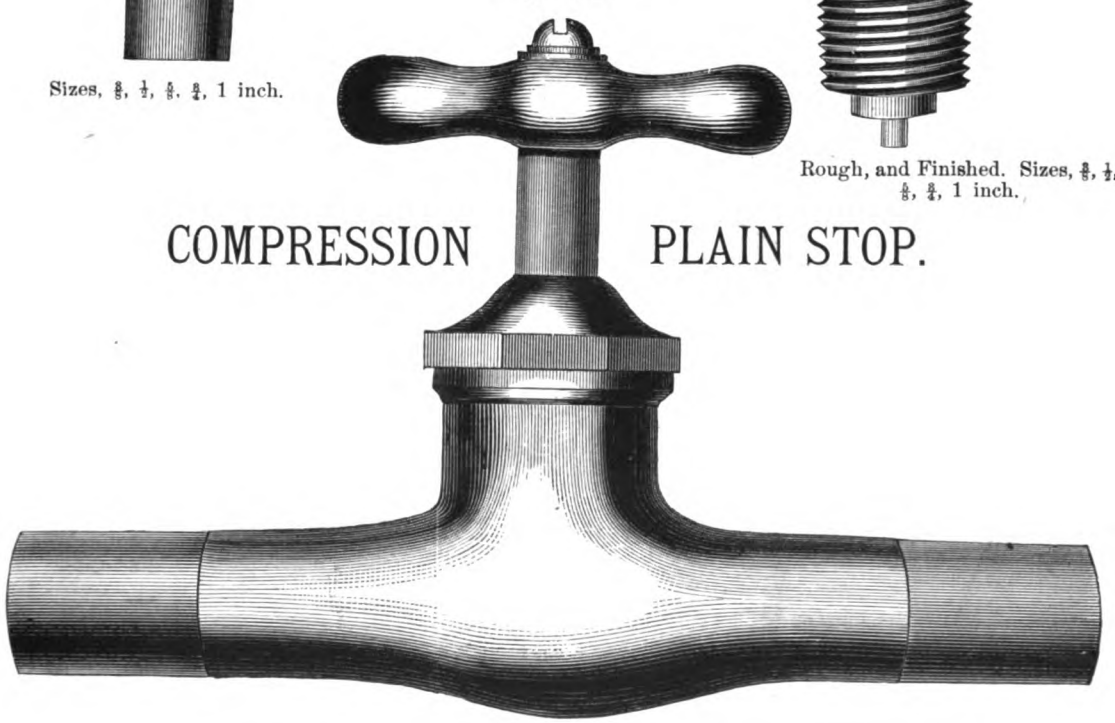
Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch.

SELF-CLOSING CISTERN.

Fig. 277.

Rough, and Finished. Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch.

Fig. 278.



COMPRESSION PLAIN STOP.

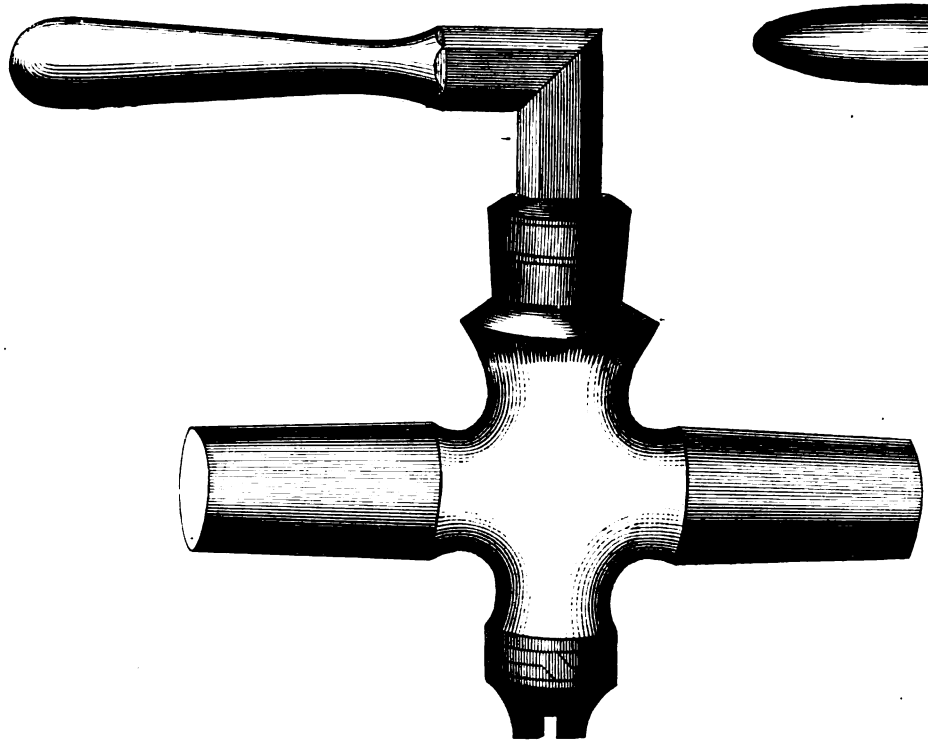
Rough, Finished, or Screwed for Iron Pipe. Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch.

Digitized by Google

ROUGH STOP, LEVER HANDLE.

SPRING & SCREW, OR NUT & WASHER BOTTOM.

Fig. 280.

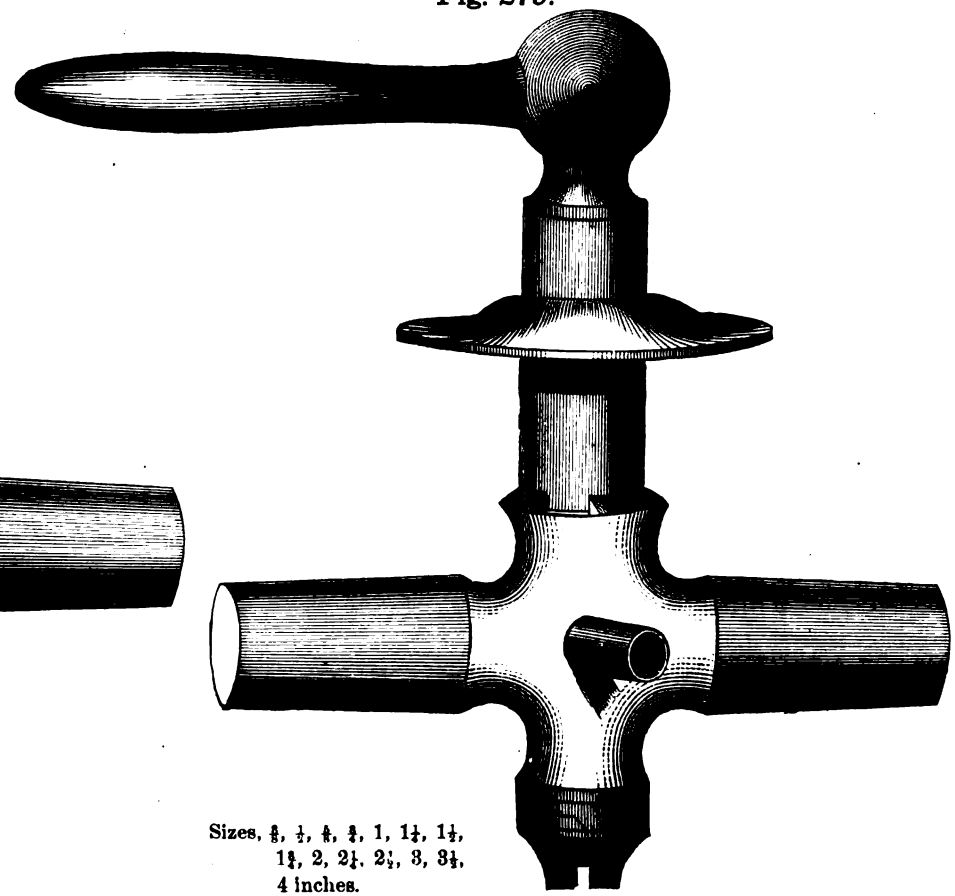


Sizes, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 3, 3½, 4 inches.

SHOWER STOP AND WASTE,

BRASS PLATE AND LEVER.

Fig. 279.



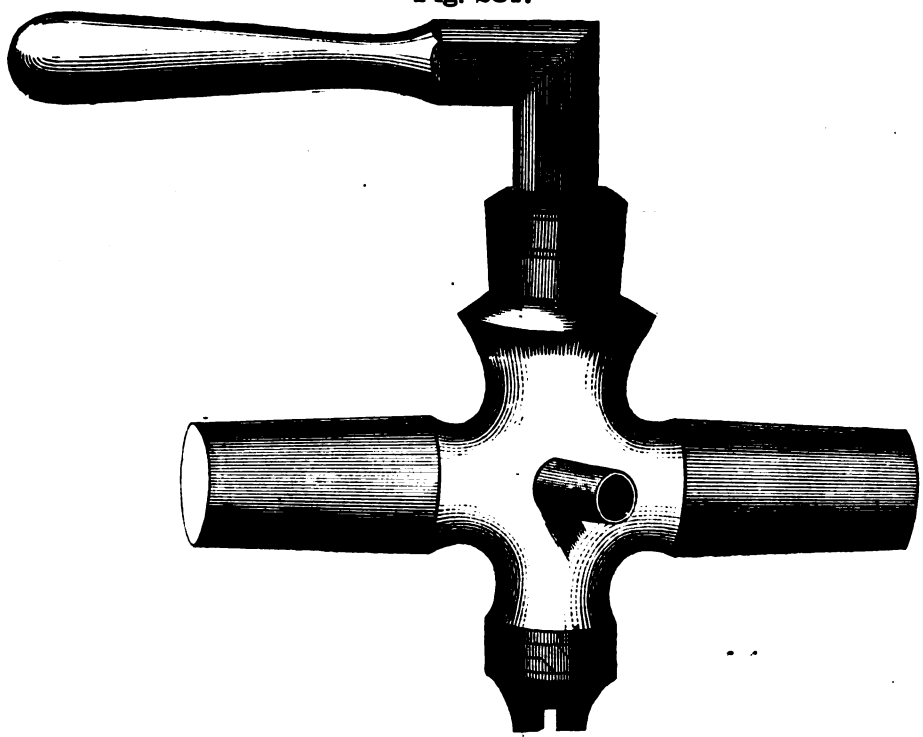
Sizes, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 3, 3½, 4 inches.

Digitized by Google

ROUGH STOP AND WASTE LEVER HANDLE.

SPRING AND SCREW OR NUT AND WASHER BOTTOM.

Fig. 281.

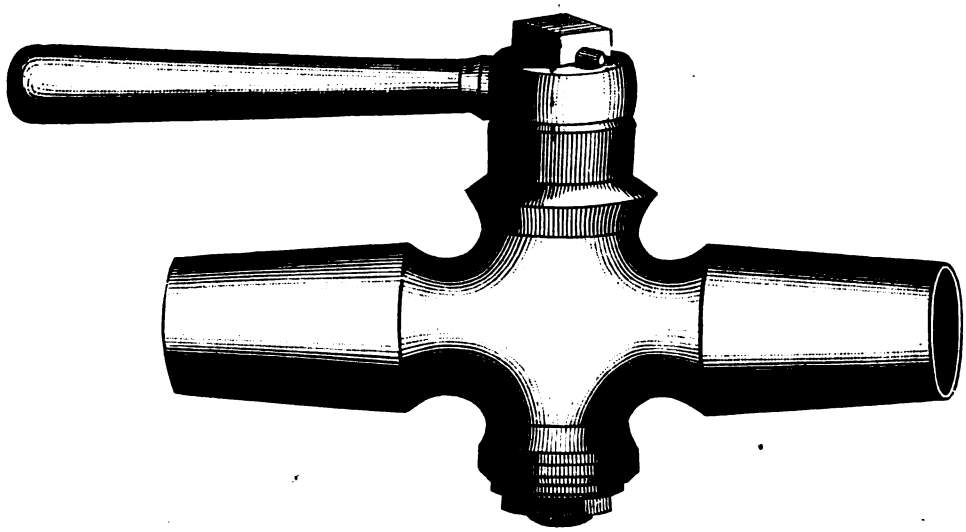


Sizes, ⅜, ½, ⅝, ¾, 1, 1¼, 1½, 2 inches.

ROUGH WATER STOP.

HEAVY SHANK, NUT, AND WASHER BOTTOM.

Fig. 282.



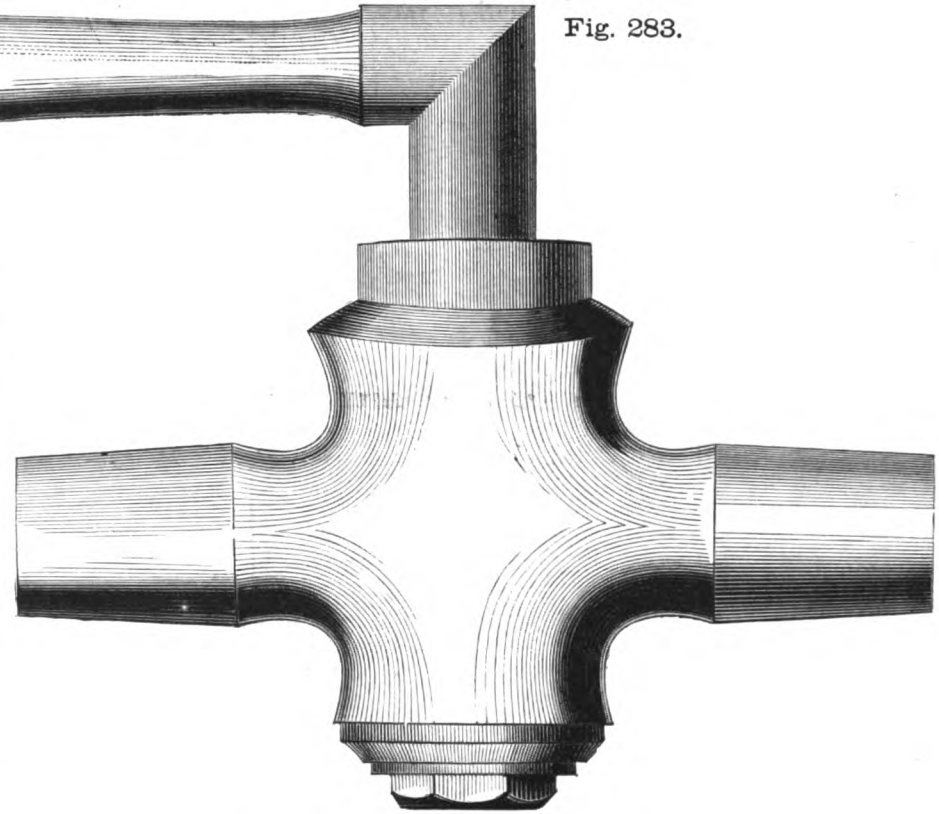
Sizes, ¾, 1, 1¼, 1½, 1¾, 2, 2¼, 2½, 3, 3½, 4 inches

Digitized by Google

ROUND WAY STOP, LEVER OR TEE HANDLE.

WITH OR WITHOUT WASTE, AND FOR LEAD OR IRON PIPE.

Fig. 283.

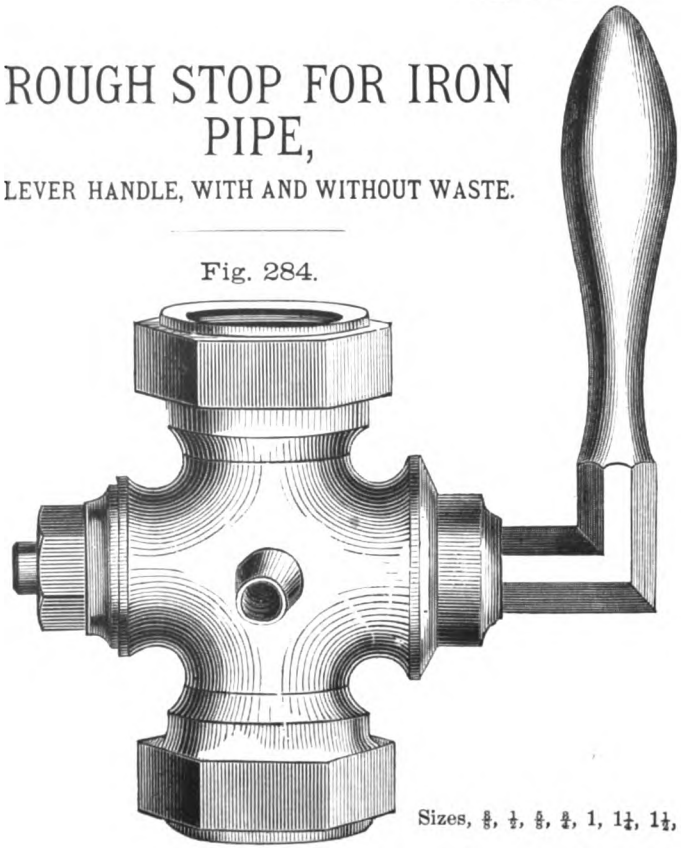


Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2, $2\frac{1}{4}$, $2\frac{1}{2}$ inches.

ROUGH STOP FOR IRON PIPE,

LEVER HANDLE, WITH AND WITHOUT WASTE.

Fig. 284.



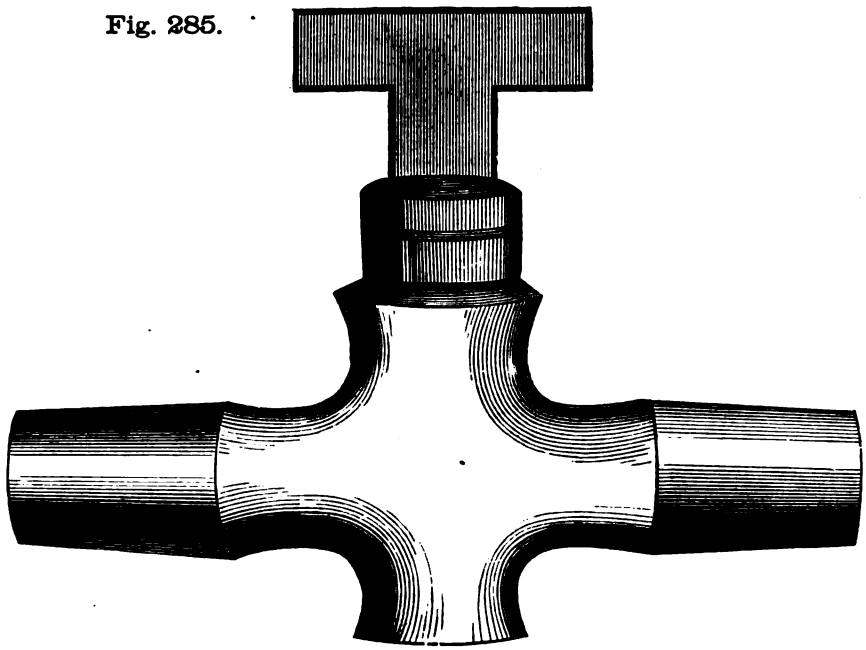
Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 inches.

Digitized by Google

ROUGH STOP, TEE HANDLE, RIVET BOTTOM.

WITH OR WITHOUT WASTE,

Fig. 285.



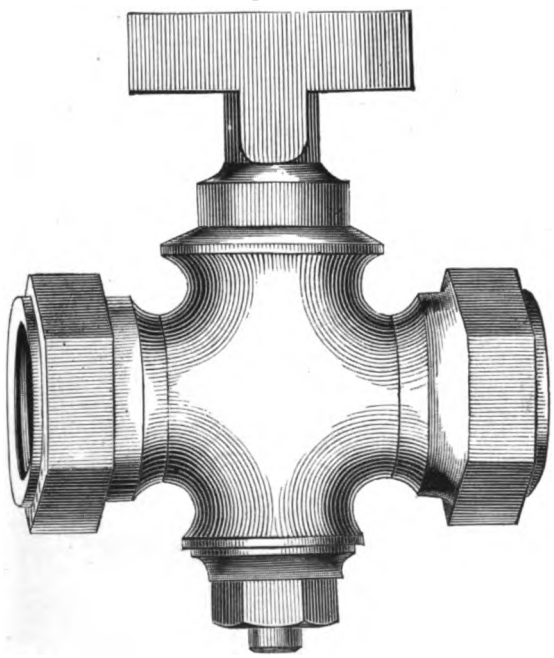
Sizes, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 2 inches.

ROUGH STOP, TEE HANDLE,

FOR IRON PIPE.

WITH OR WITHOUT WASTE AND STOP ON KEY.

Fig. 286.



Nut and Washer and Rivet Bottom. Sizes, ¼, ⅜, ½, 1, 1¼, 1½, 2 inches.

TEE HANDLE HOPPER COCK.

Fig. 287.

Sizes, ¼, ⅜, ½ inch.

BALL COCK.

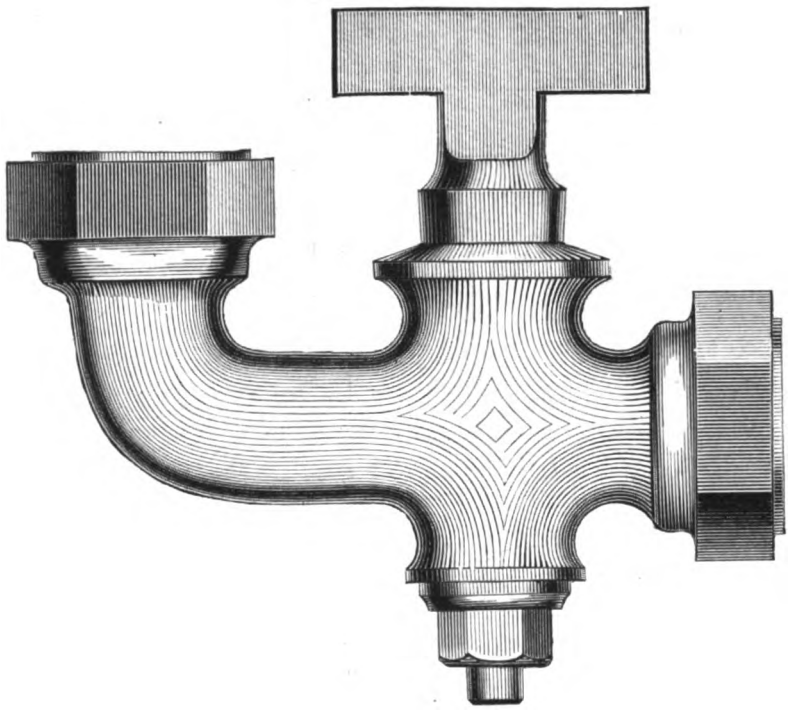
Fig. 288.

Sizes, ⅜, ½, ⅝, ¾, 1, 1¼ inch.

Digitized by Google

HYDRANT COCK FOR IRON PIPE.

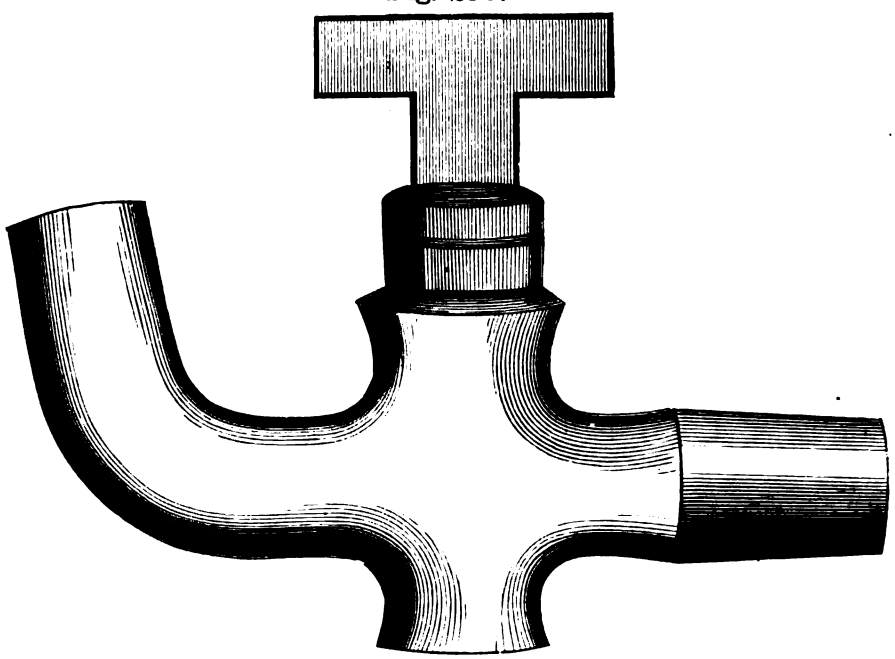
Fig. 289.



Rivet, or Nut and Washer Bottom. Sizes, ¼, ⅜; ½, 1 inch.

HYDRANT COCK.

Fig. 290.



Rivet, or Nut and Washer Bottom. Sizes, ¼, ⅜, ½, 1 inch.

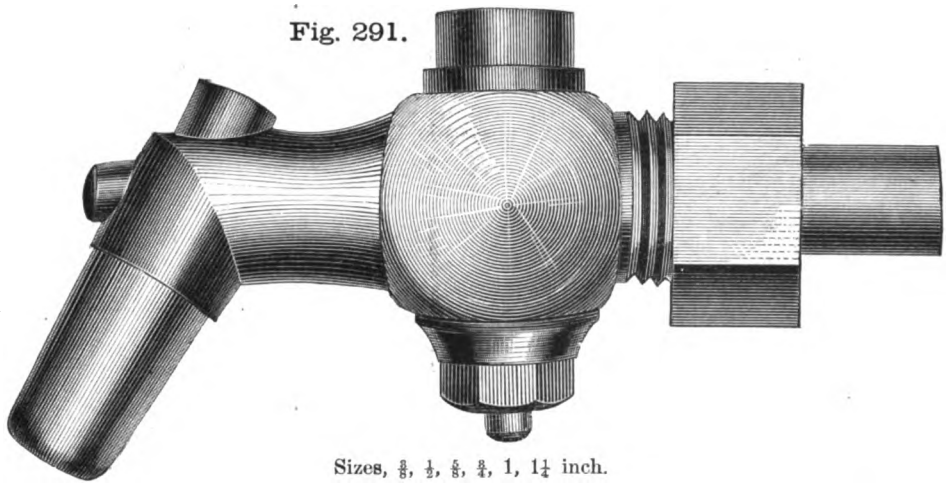
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

CORPORATION COCKS.

FOR IRON PIPE.

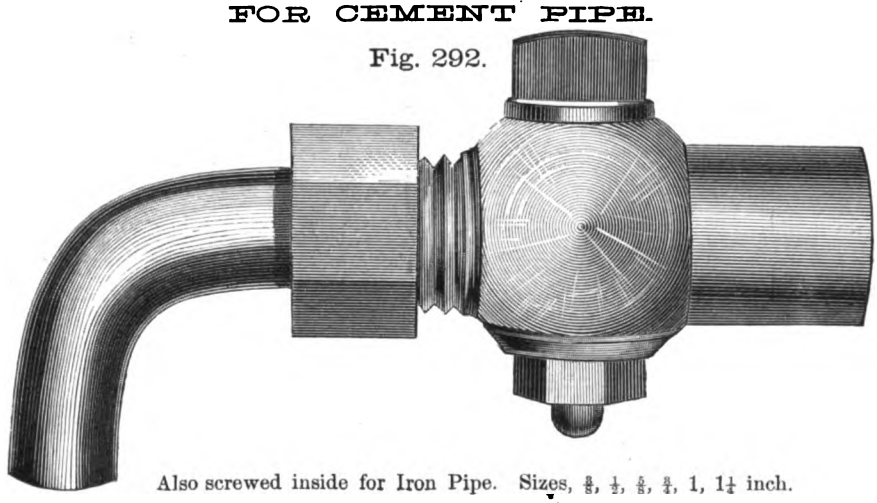
Fig. 291.



Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ inch.

FOR CEMENT PIPE.

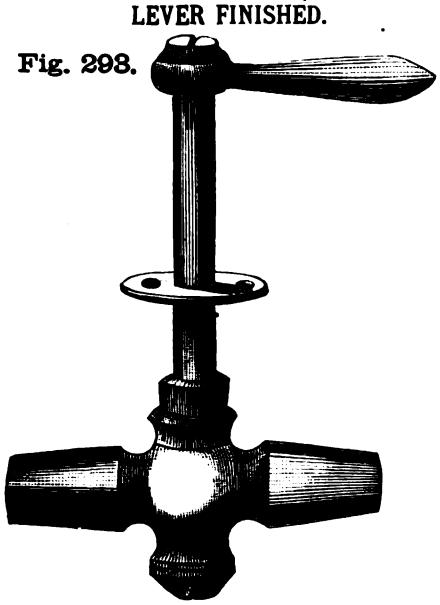
Fig. 292.



Also screwed inside for Iron Pipe. Sizes, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ inch.

LONG STEM HOPPER COCK, PLATE AND LEVER FINISHED.

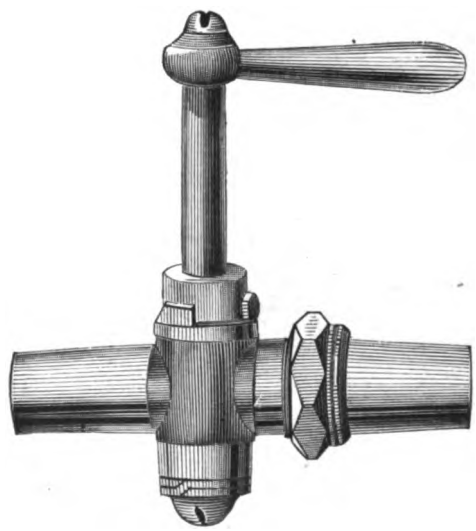
Fig. 293.



Sizes, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.

SHIP WATER CLOSET COCK.

Fig. 294.



Sizes, $\frac{5}{8}$, $\frac{3}{4}$, 1 inch.

Digitized by Google

BASIN PULLS.

Fig. 295.

Fig. 296.

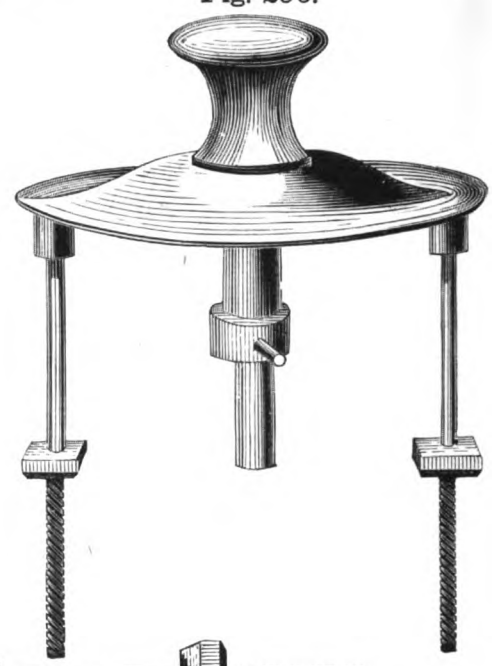
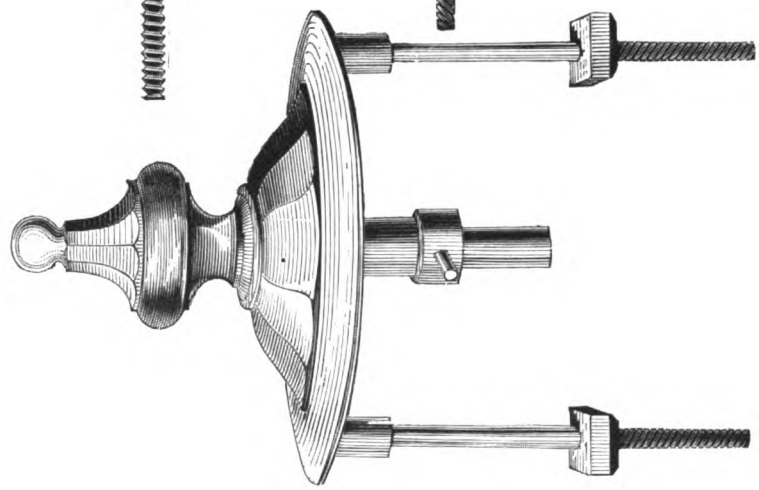
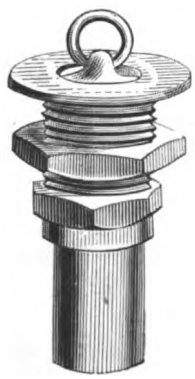


Fig. 297.



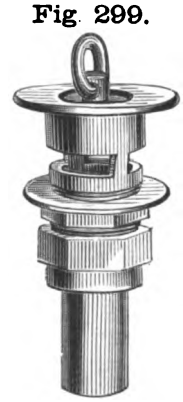
BASIN PLUG.

Fig. 298.



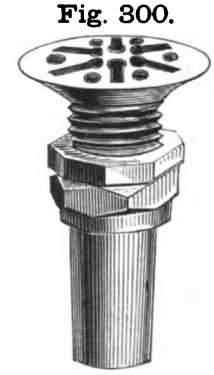
BASIN PLUG, PAT. OVERFLOW.

Fig. 299.



BASIN GRATE.

Fig. 300.

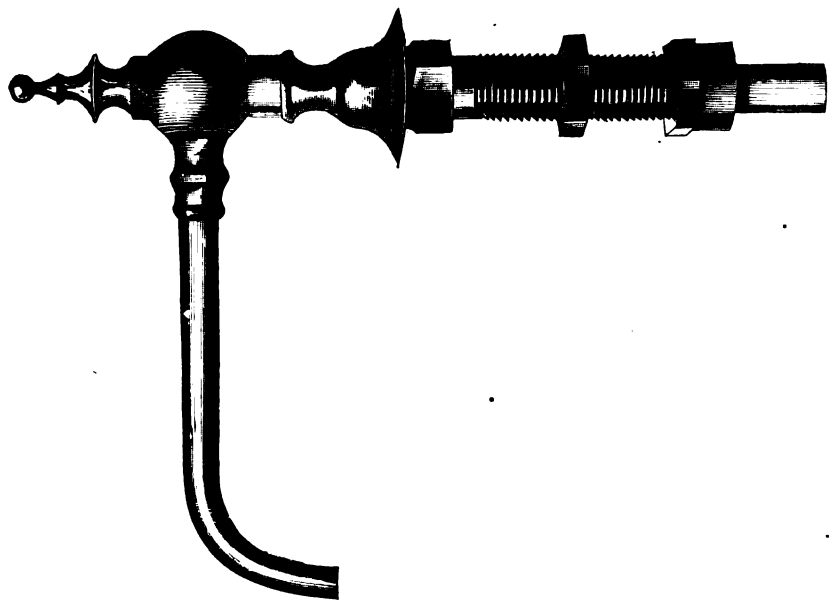


A. CARR, MANUFACTURER, NEW YORK.

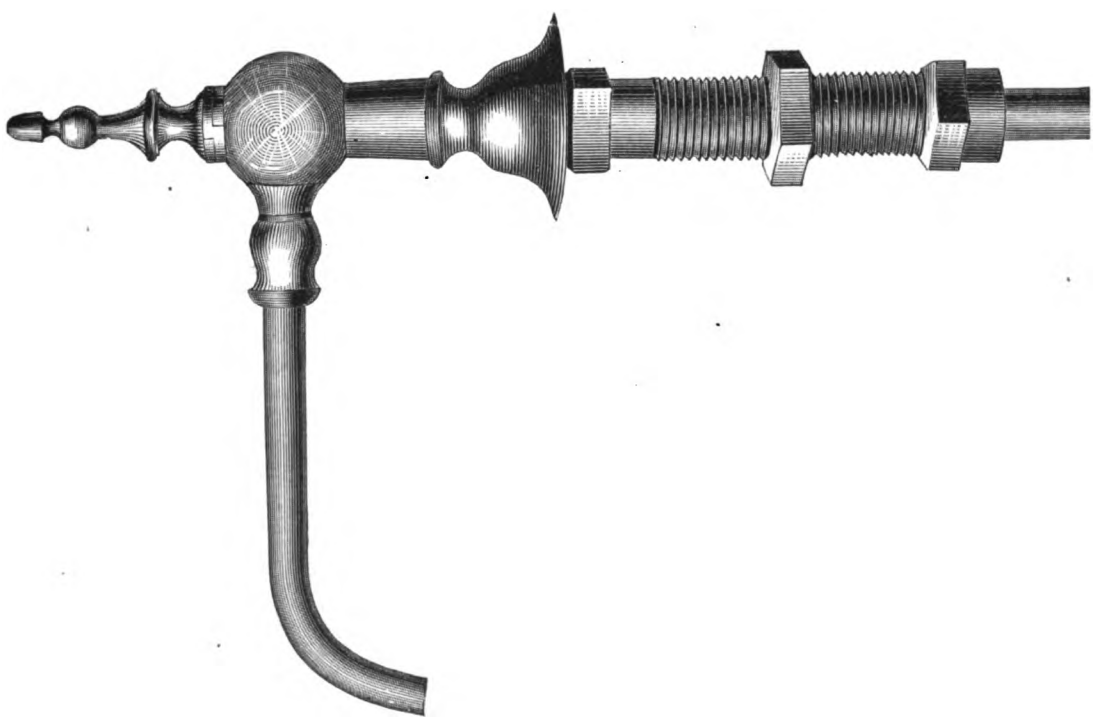
Digitized by Google

BASIN COCKS.

No. 1. **Fig. 301.**



No. 2. **Fig. 302.**



Digitized by Google

BASIN COCKS.

No. 3. Fig. 303.

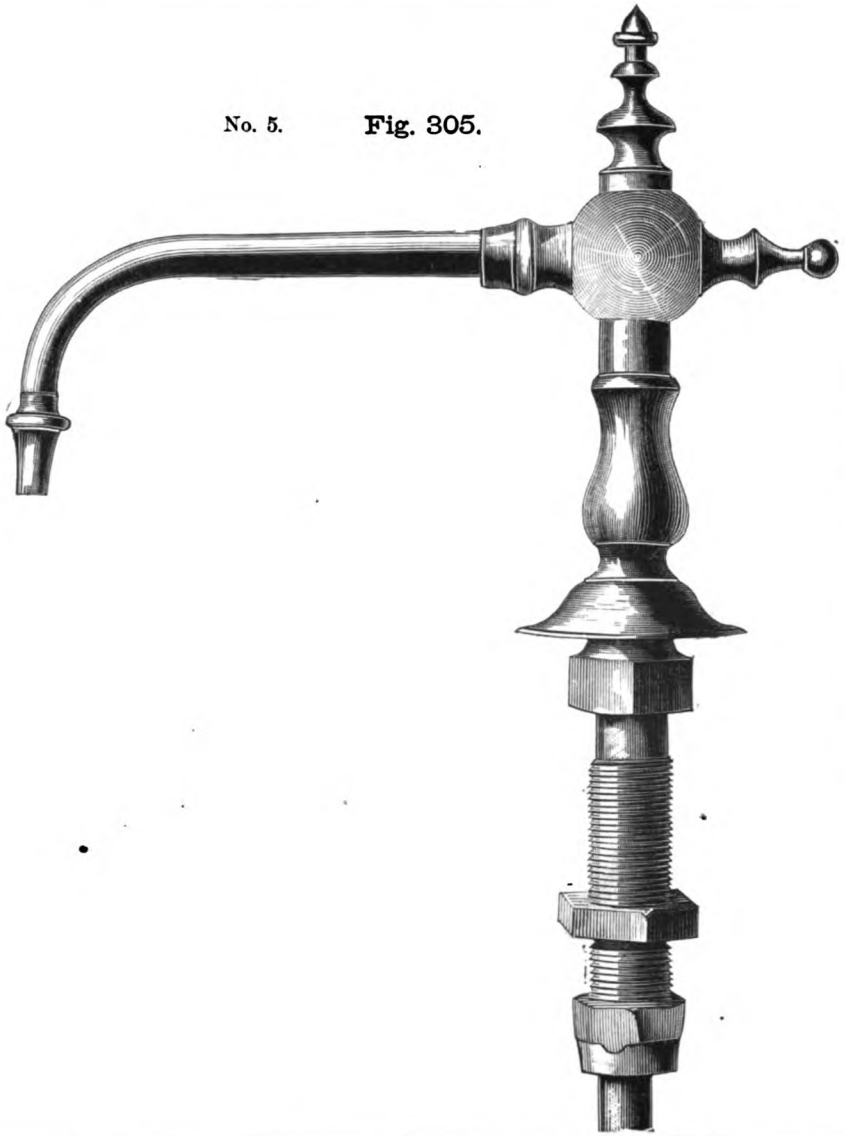
No. 4. Fig. 304.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

No. 6. Fig. 306.

No. 5. Fig. 305.

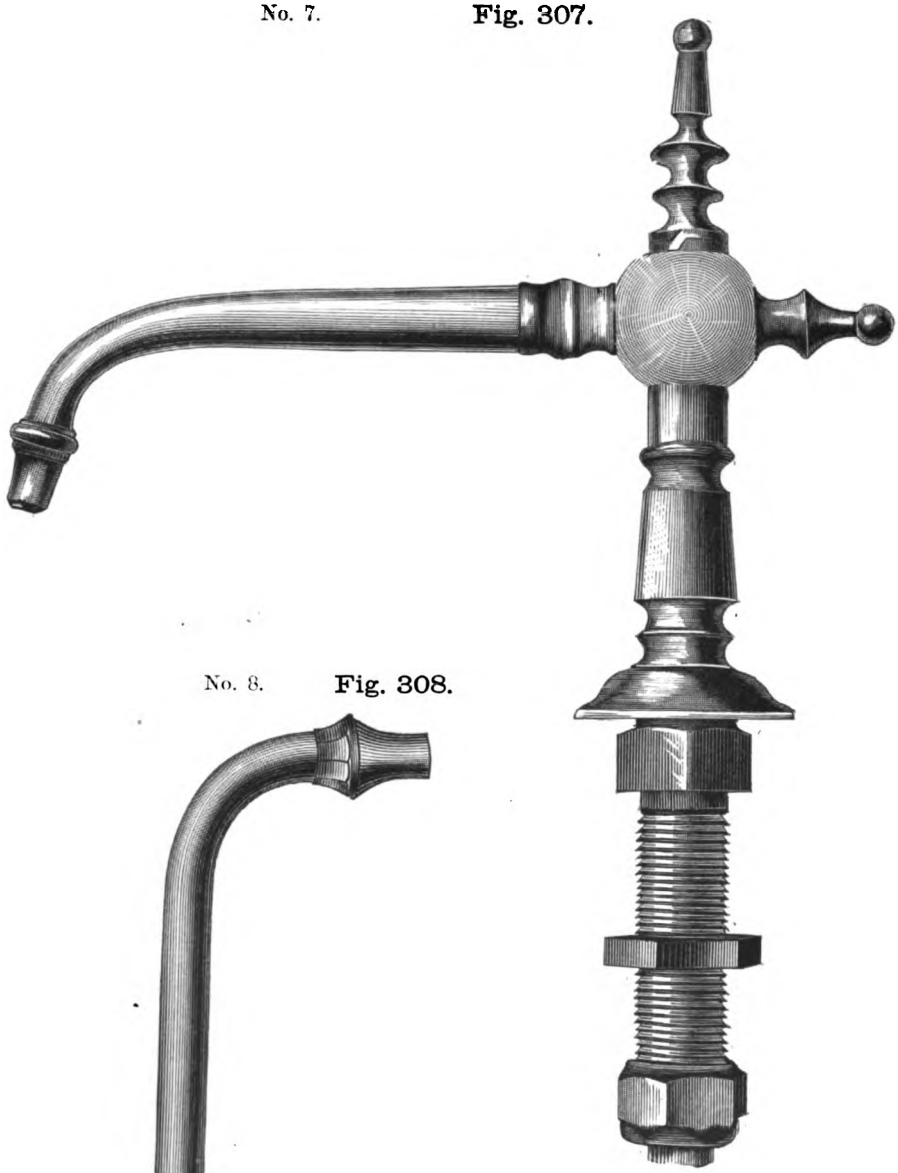


BASIN COCKS.

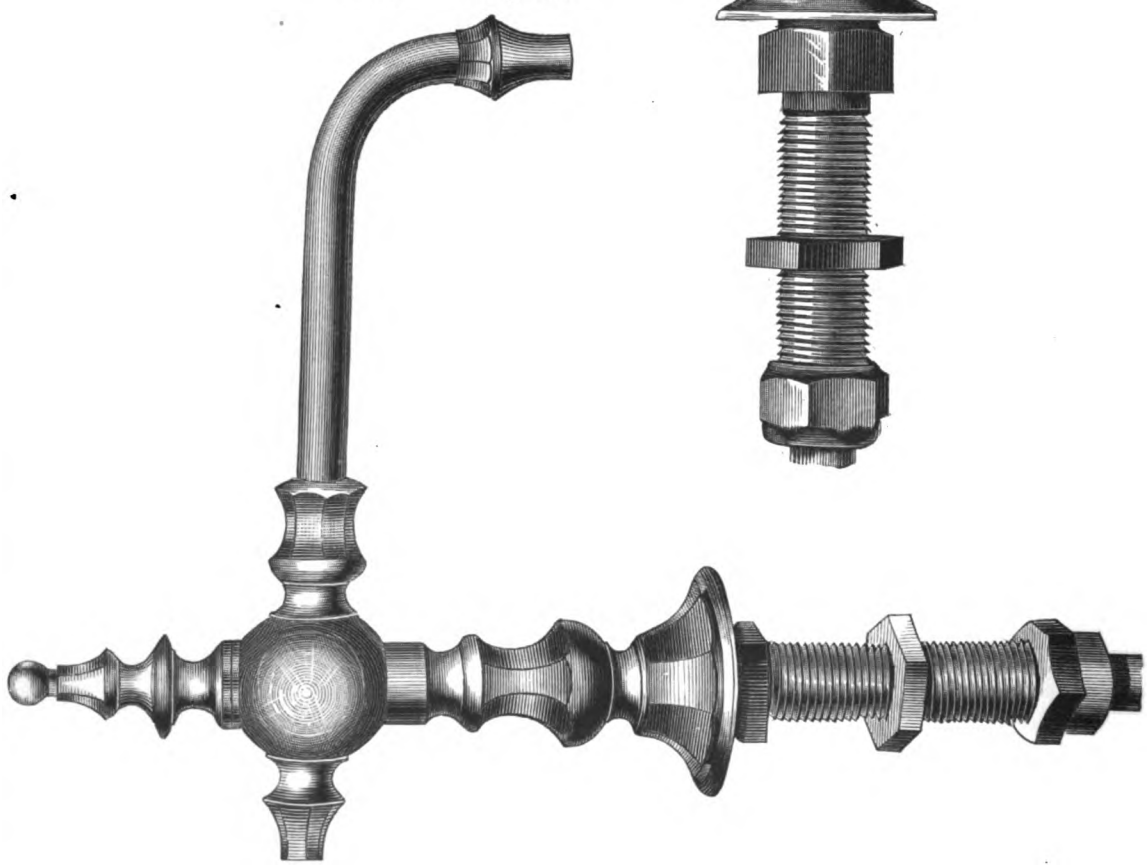
Digitized by Google

BASIN COCKS.

No. 7. **Fig. 307.**



No. 8. **Fig. 308.**



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

COMPRESSION BASIN COCKS.

Fig. 309.

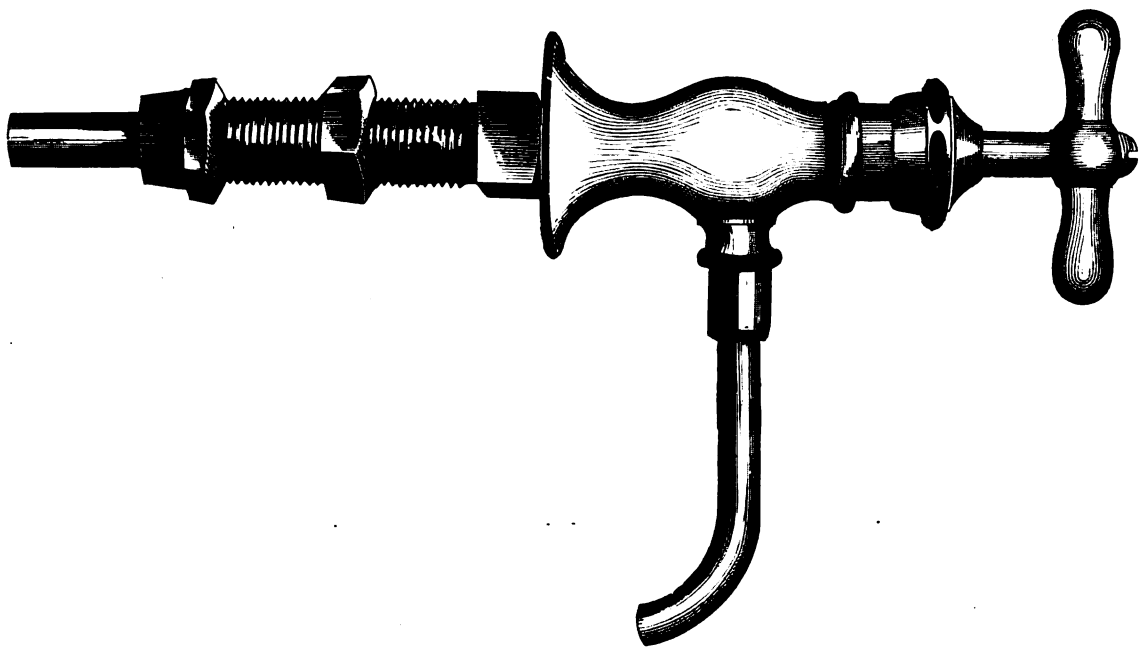
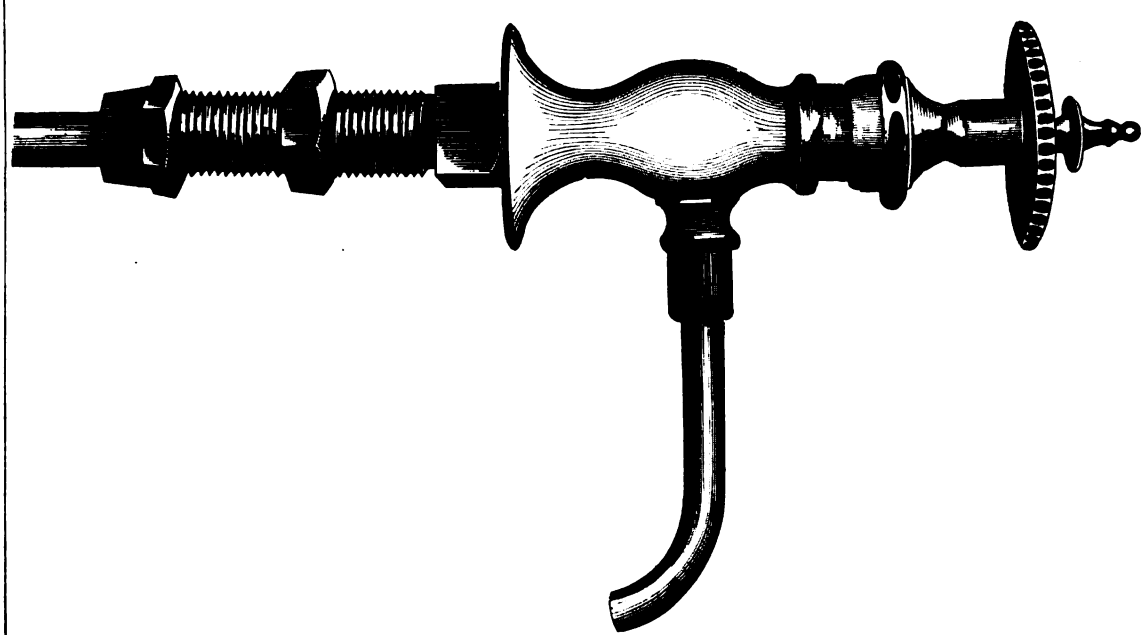


Fig. 310.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

BRACKET BASIN COCKS.

Fig. 311.

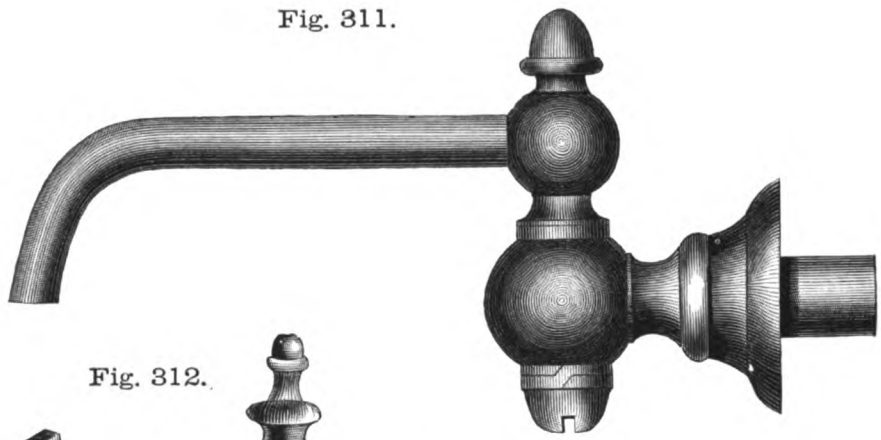
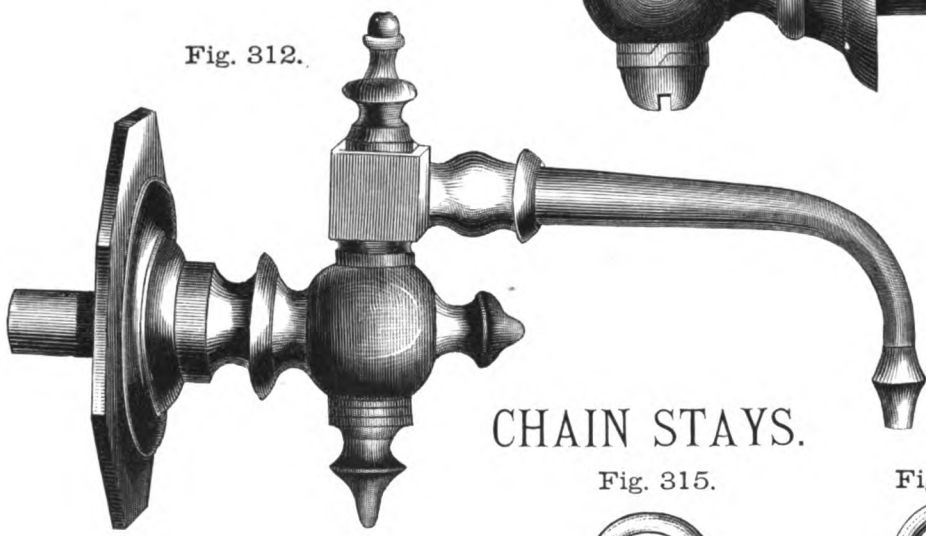


Fig. 312.



CHAIN STAYS.

Fig. 313.

Fig. 314.

Fig. 315.

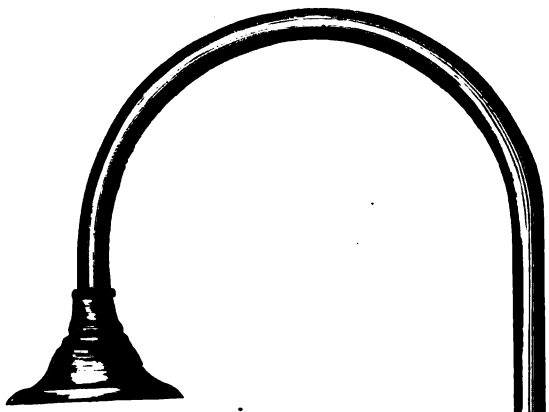
Fig. 316.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

UPRIGHT SHAMPOOING COCK.

Fig. 317.



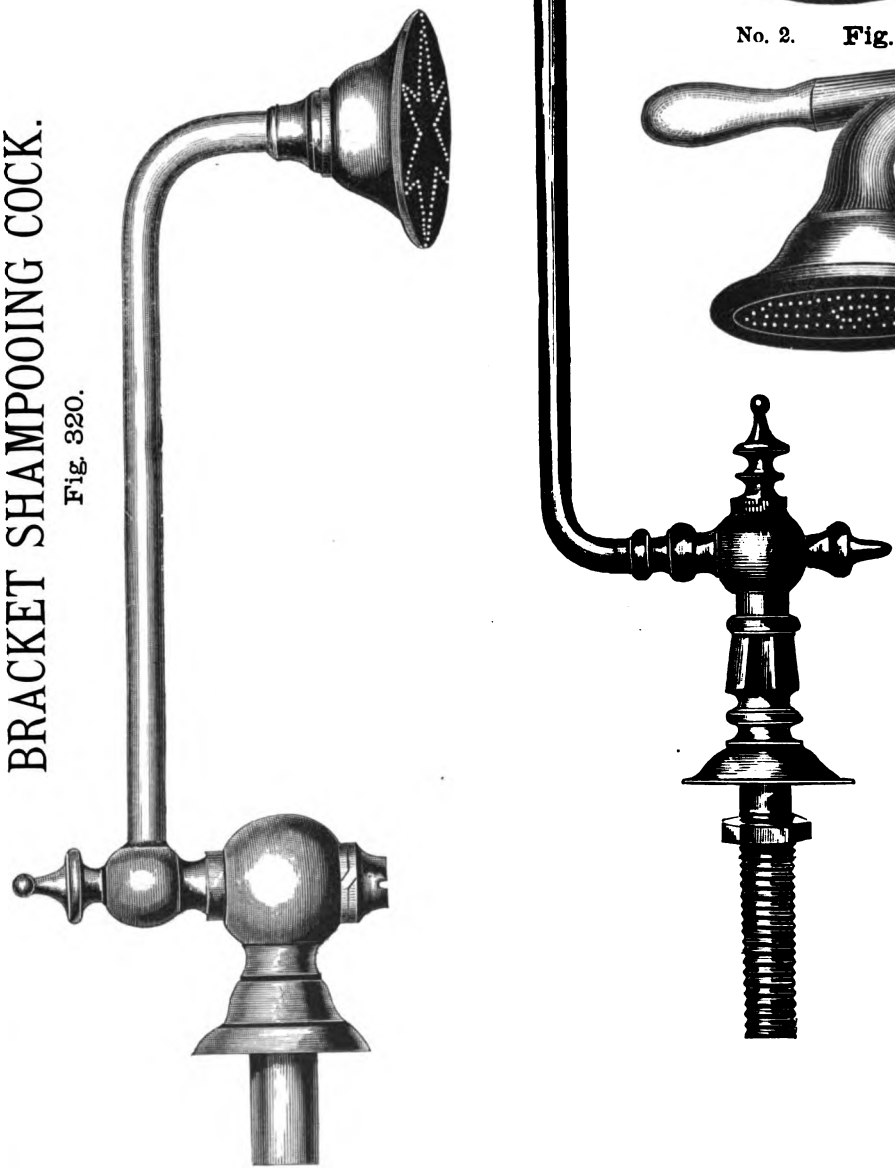
SHAMPOOING SPRINKLERS.

No. 1. **Fig. 318.**

No. 2. **Fig. 319.**

BRACKET SHAMPOOING COCK.

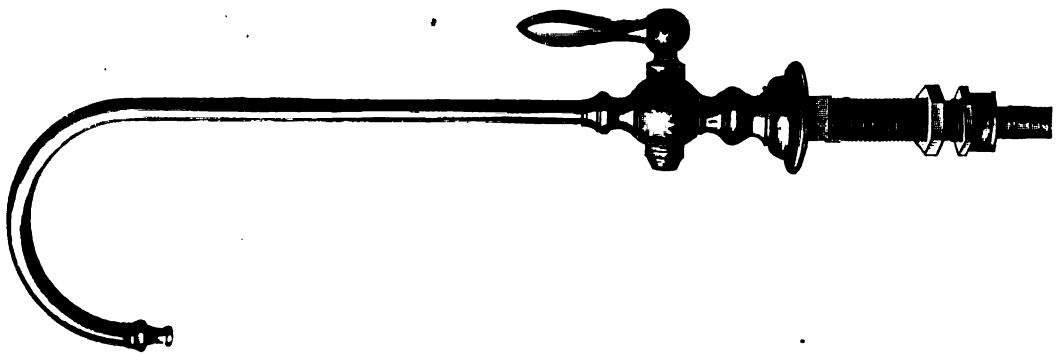
Fig. 320.



Digitized by Google

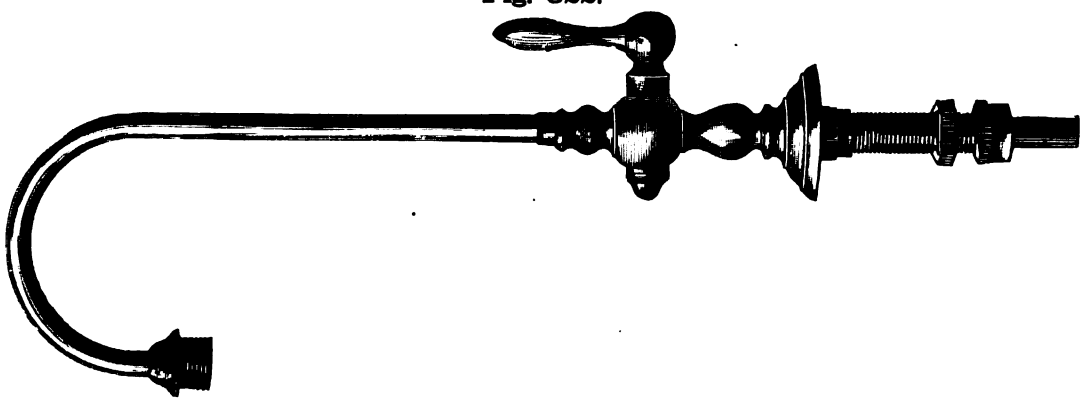
BULER PANTRY COCKS.

Fig. 321.



WITH HOSE NOZZLE FOR FILTER.

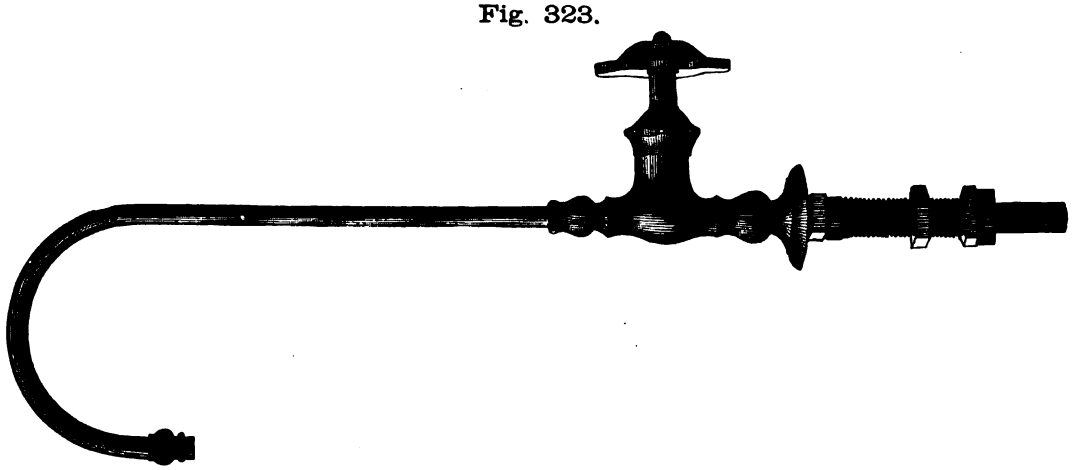
Fig. 322.



COMPRESSION BUTLER PANTRY COCK.

WITH AND WITHOUT HOSE NOZZLE.

Fig. 323.



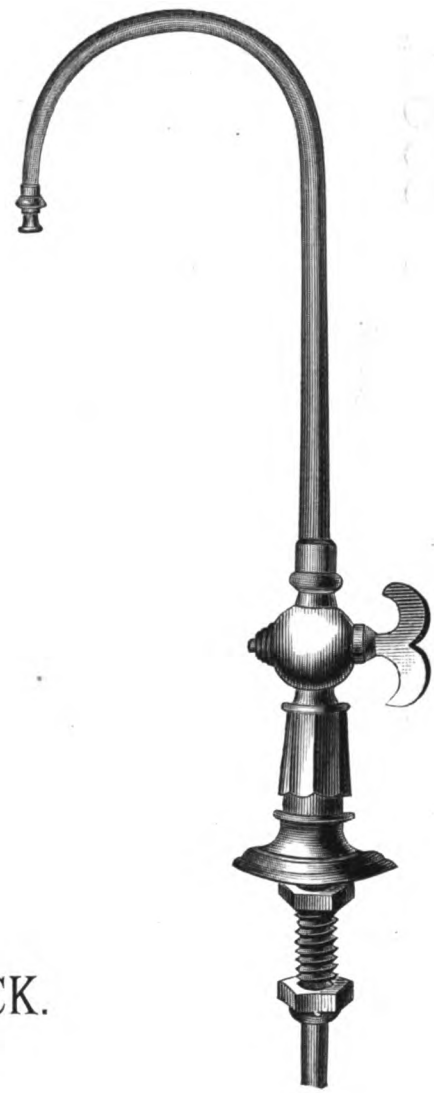
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

COUNTER COCKS.

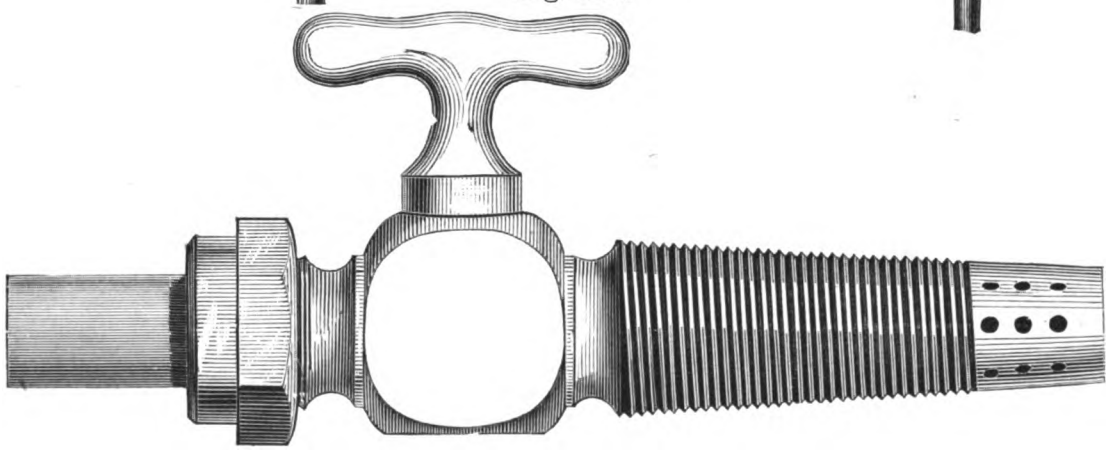
PLAIN.
Fig. 324.

OCTAGON.
Fig. 325.



BEER COCK.

Fig. 326.

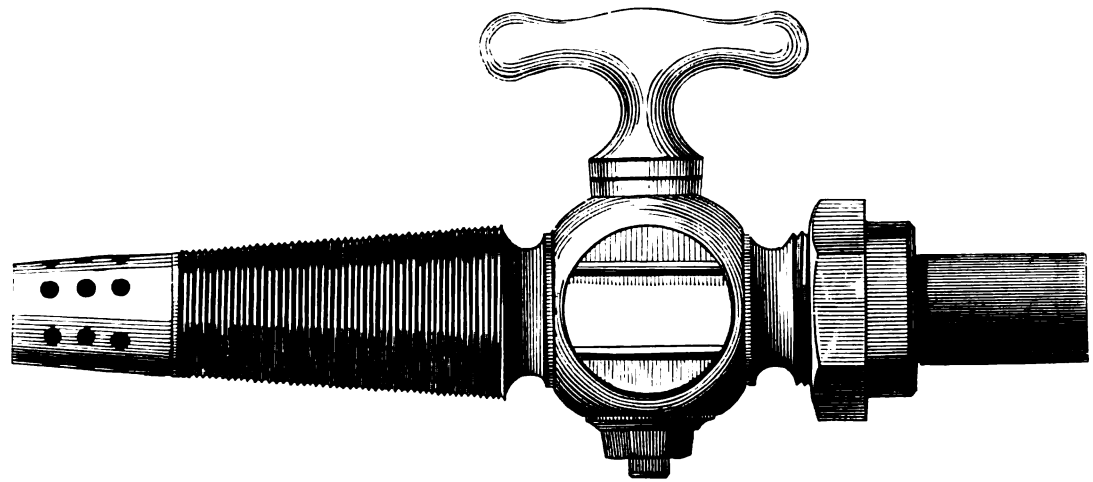


Rivet, and Nut and Washer Bottom. Sizes, ½, ¾ inch.

Digitized by Google

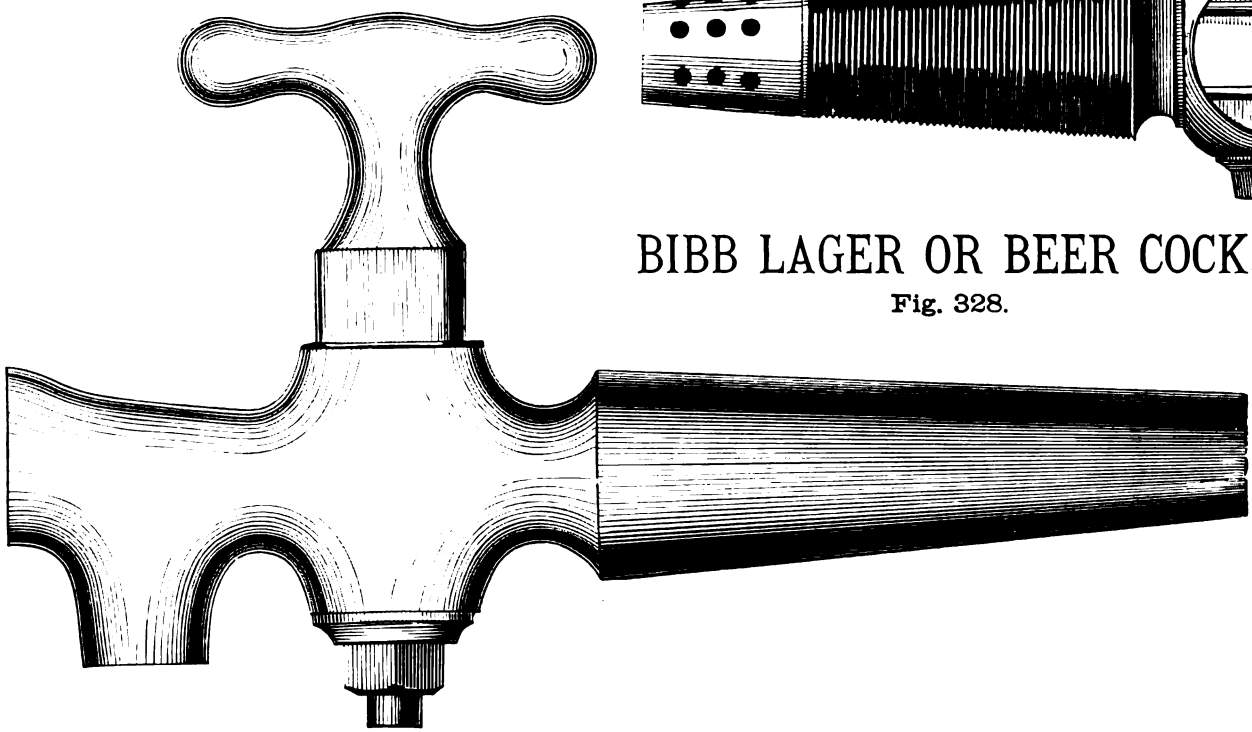
HEAVY BEER COCK.

Fig. 327.



BIBB LAGER OR BEER COCK.

Fig. 328.

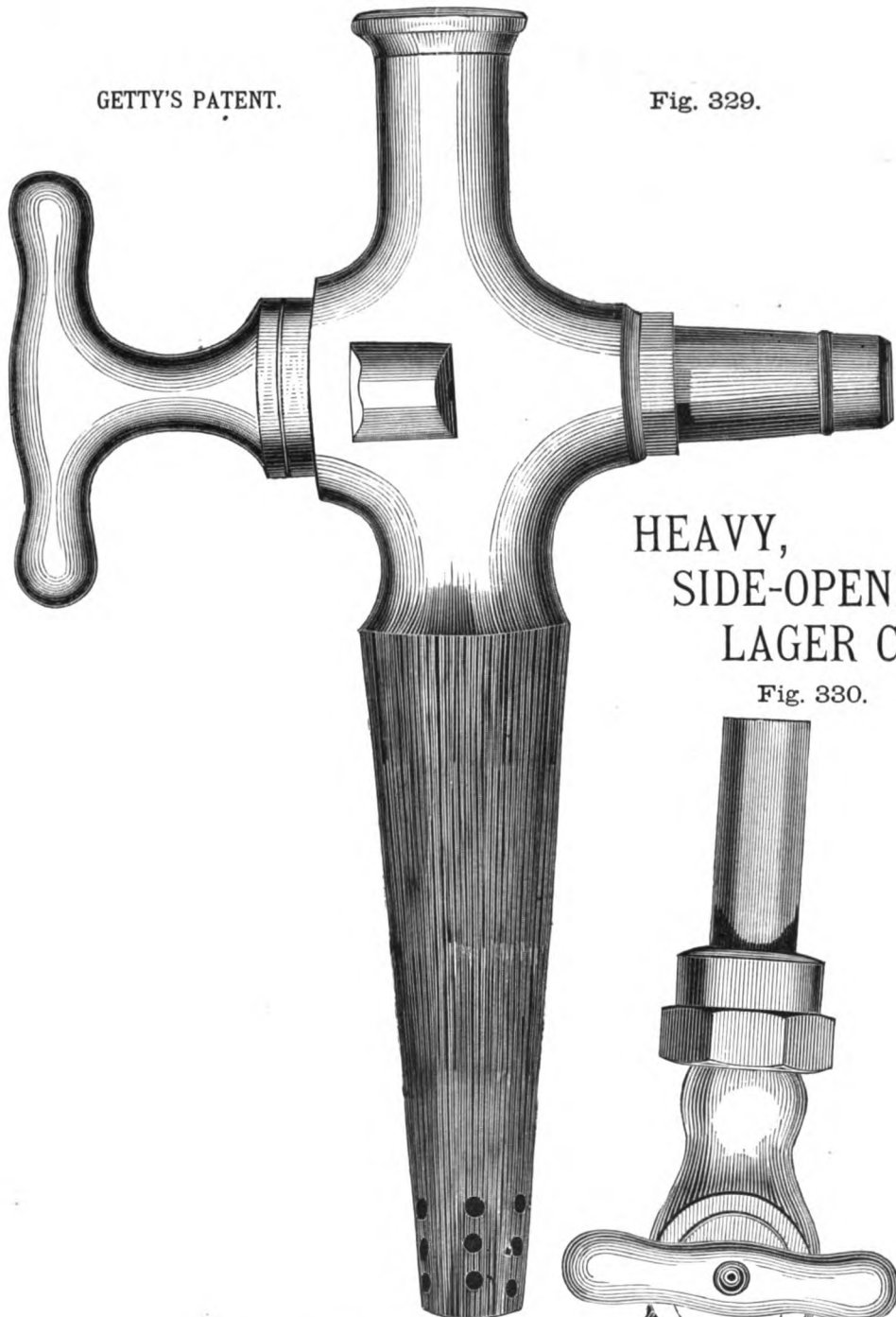


Digitized by Google

SELF-VENTILATING LAGER BEER COCK.

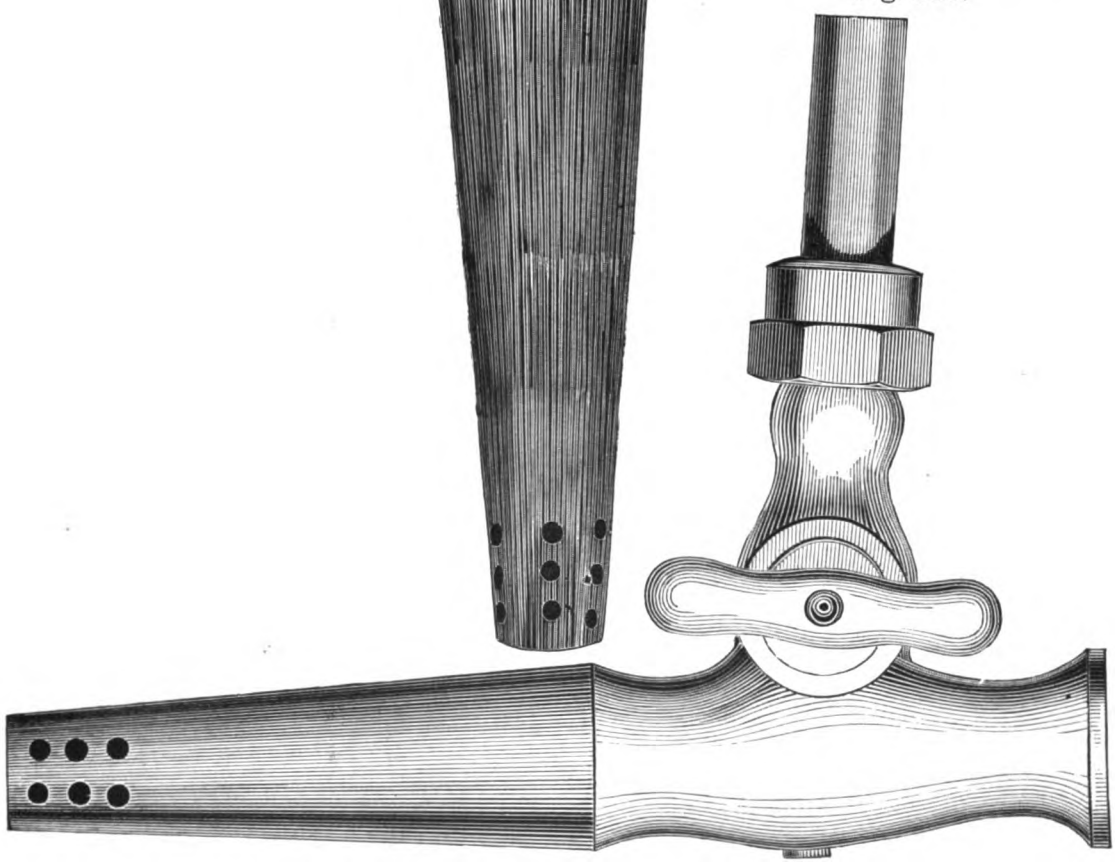
GETTY'S PATENT.

Fig. 329.



HEAVY, SIDE-OPENING LAGER COCK.

Fig. 330.



Digitized by Google

BIBB LAGER COCK, SCREW NOZZLE.

Fig. 331.

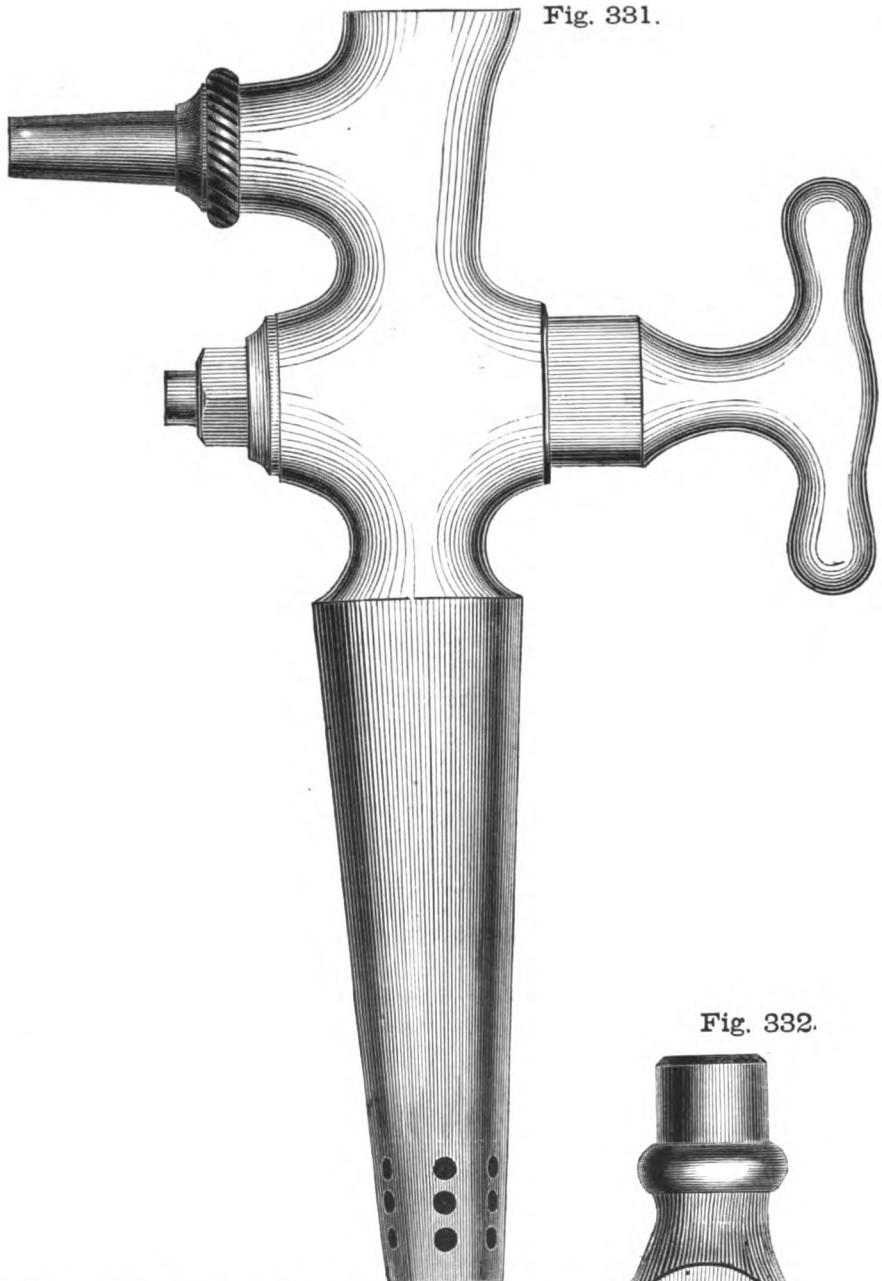
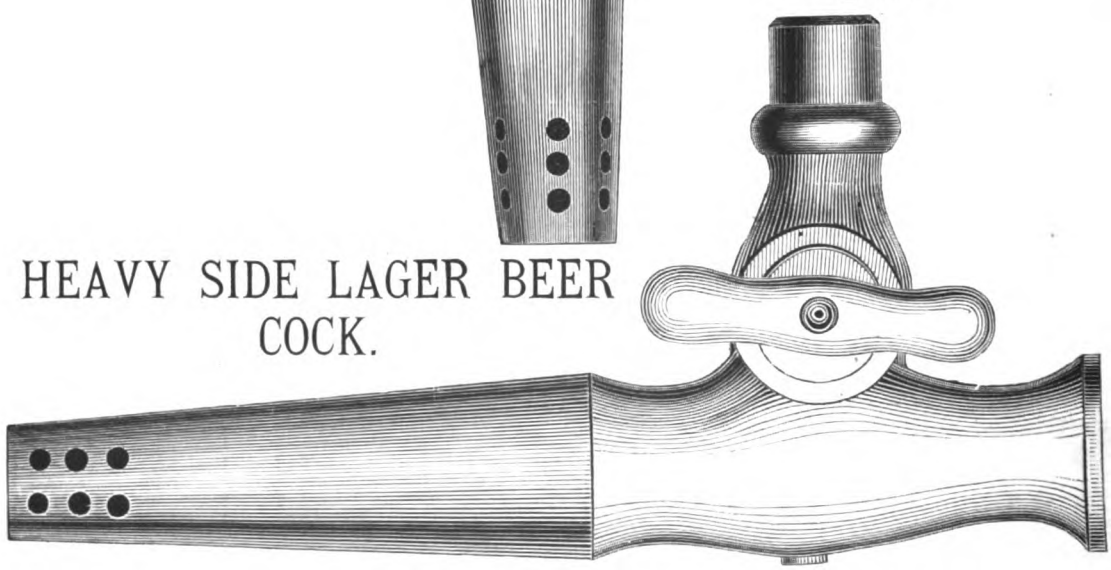


Fig. 332.



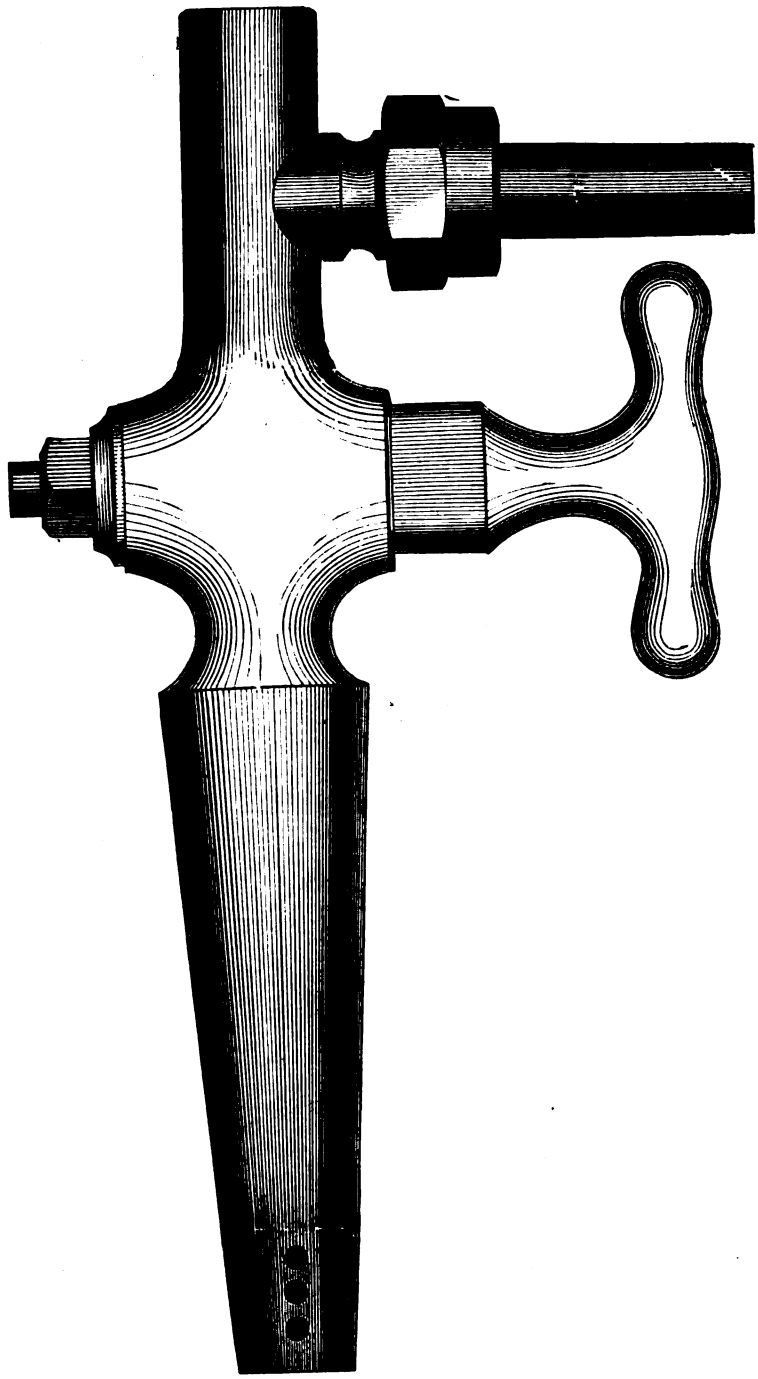
HEAVY SIDE LAGER BEER COCK.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

BEER COCK.

Fig. 333.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

BIBB LAGER COCK, SCREW NOZZLE.

Fig. 331.

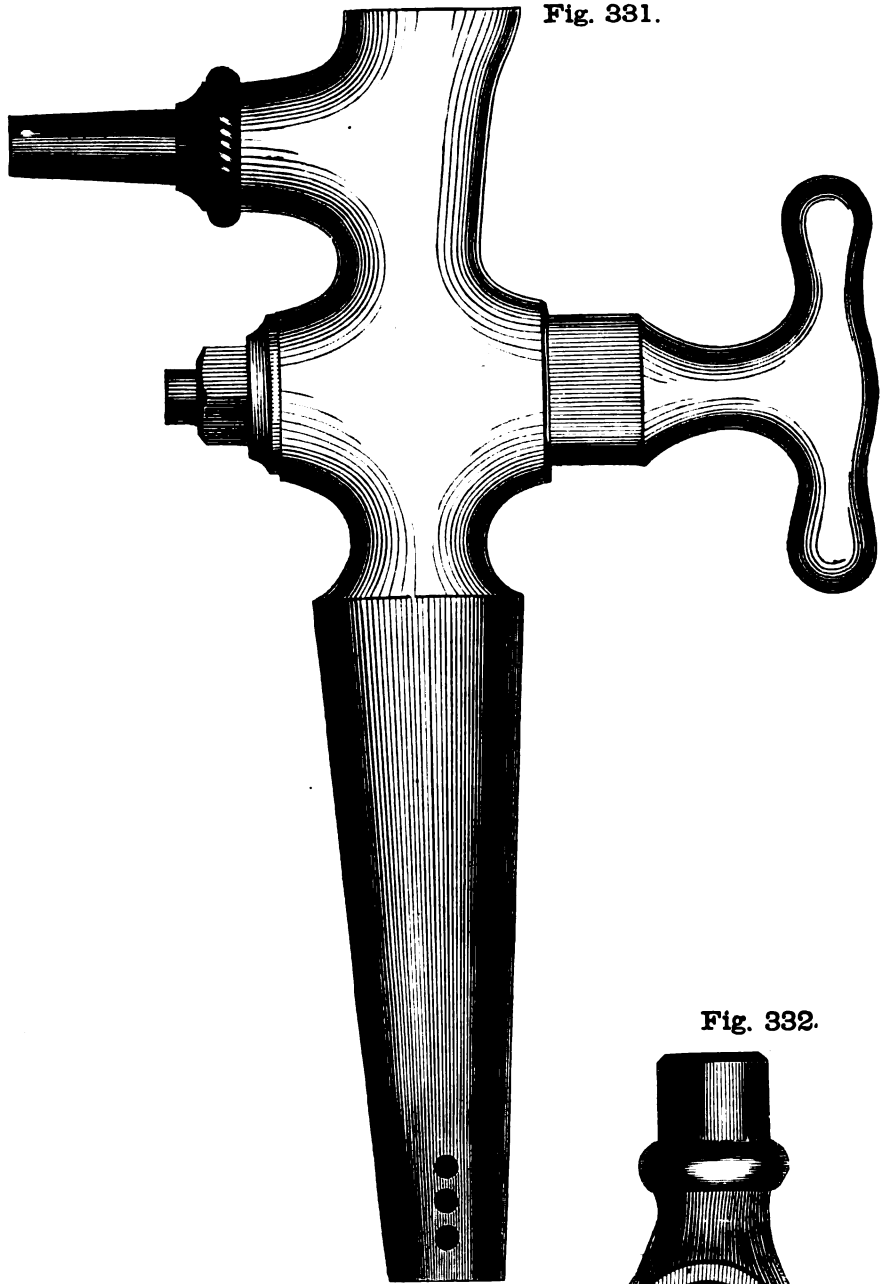
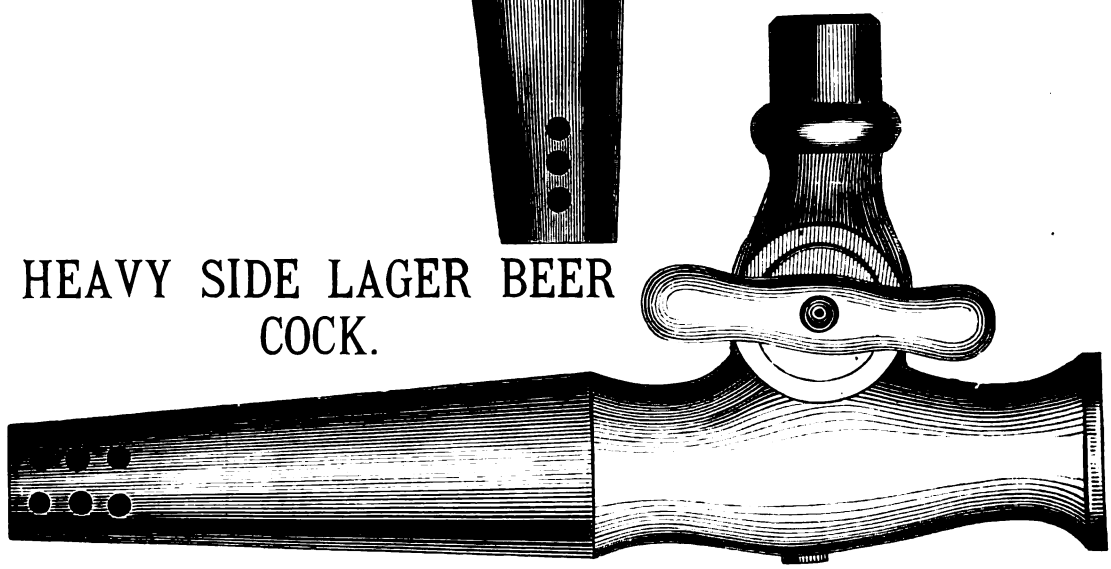


Fig. 332.

HEAVY SIDE LAGER BEER COCK.

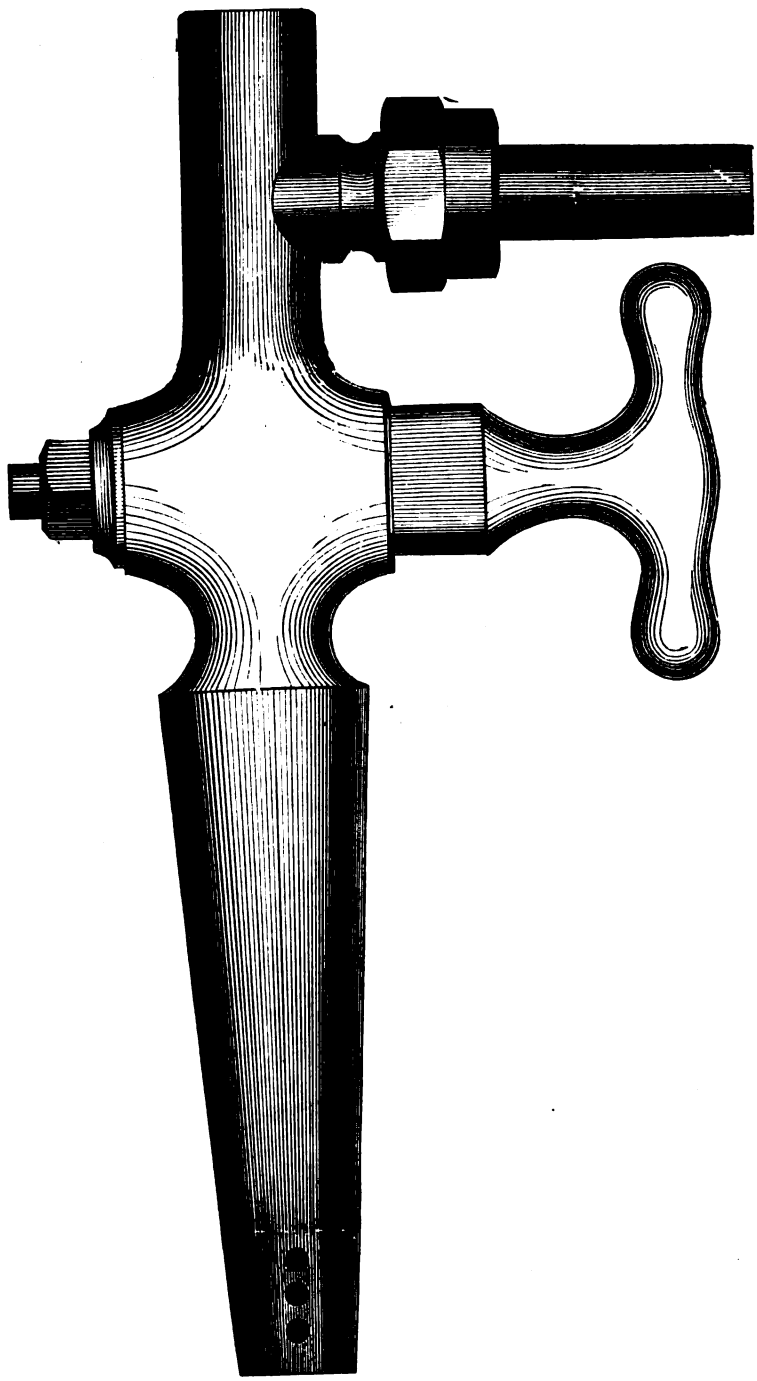


A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

BEER COCK.

Fig. 333.



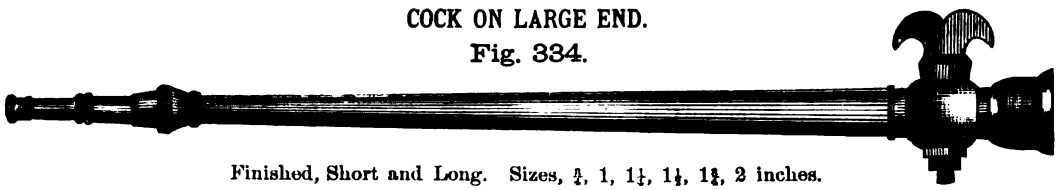
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

HOSE PIPES.

COCK ON LARGE END.

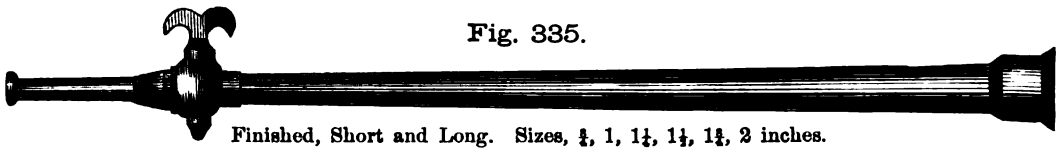
Fig. 334.



Finished, Short and Long. Sizes, ½, 1, 1¼, 1½, 1¾, 2 inches.

COCK ON SMALL END.

Fig. 335.



Finished, Short and Long. Sizes, ½, 1, 1¼, 1½, 1¾, 2 inches.

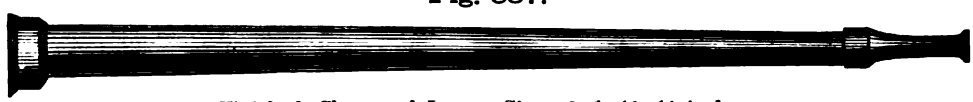
SCREW NOZZLE.

Fig. 336.

Finished, Short and Long. Sizes, ½, 1, 1¼, 1½, 1¾, 2, 2½, 2¾, 3 inches.

SOLDER TIP.

Fig. 337.



Finished, Short and Long. Sizes, ½, 1, 1¼, 1½ inches.

PATENT RUBBER HOSE PIPE AND SPRINKLER.

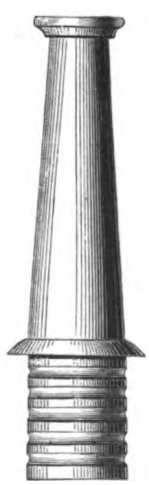
Fig. 337½.

Size, ½ inch.

HOSE SPRINKLERS.

HOSE NOZZLE TO TIE.

Fig. 338.



Sizes, ½, ¾, 1, 1¼, 1½ inches.

Fig. 339.

For ½, and 1 inch pipes.

Fig. 340.

For 1¼ and 1½ inch pipes.

A. CARR, MANUFACTURER, NEW YORK.

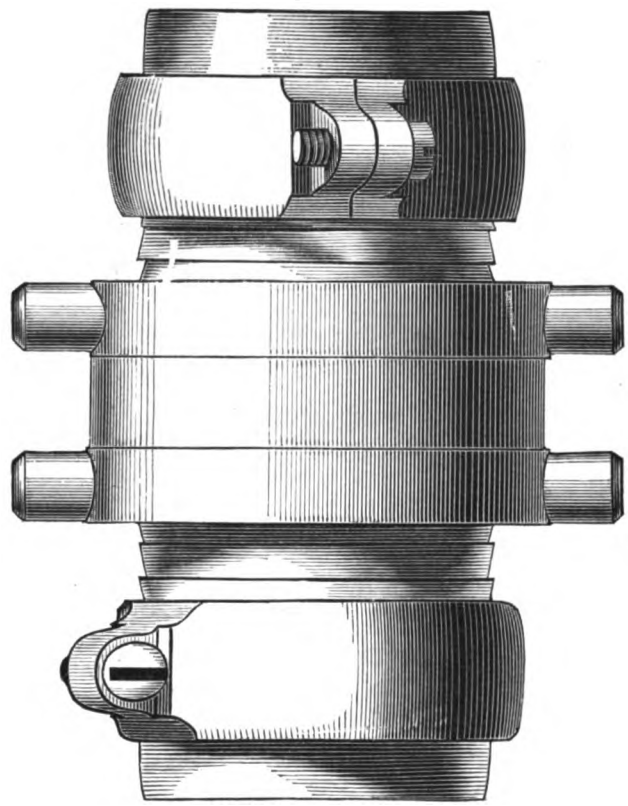
Digitized by Google

HOSE COUPLINGS FOR RUBBER HOSE.

Fig. 341.

Sizes, ¼, ⅜, ½, 1, 1¼, 1½, 1¾, 2, 2½, 2¾, 3, 4, 5, 6, 7, 8 inches.

Fig. 342.

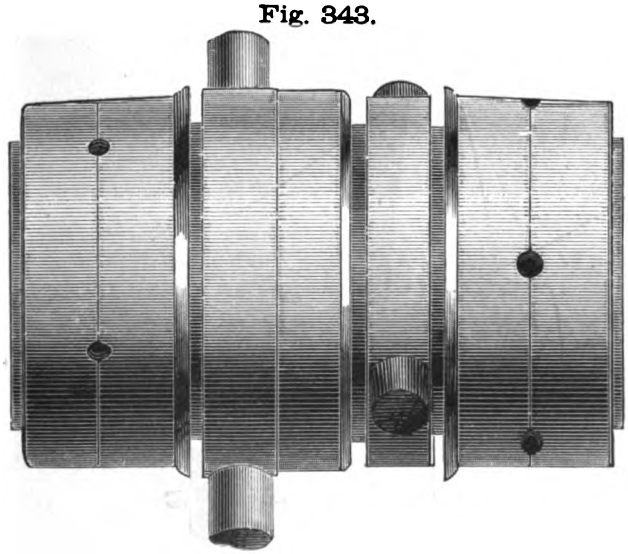


With Clamps. Sizes, 2½, 2¾, 3 inches.

HOSE COUPLING

FOR LEATHER HOSE.

Fig. 343.

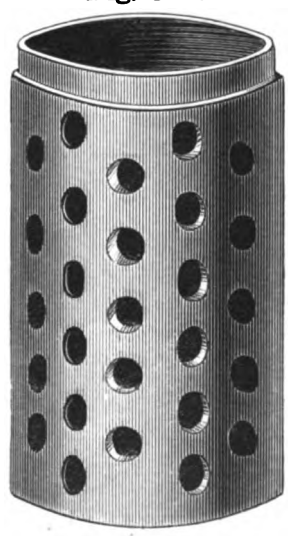


With Bands. Sizes, 2, 2½, 2¾, 3 inches.

SUCTION BASKET,

TO SCREW ON HOSE COUPLING.

Fig. 344.

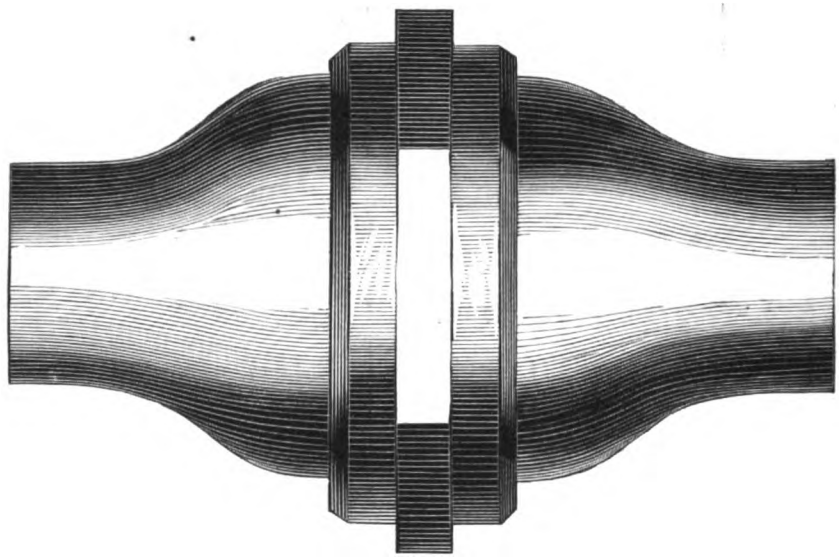


Sizes, 2, 2½, 3, 4, 5, 6, 7, 8 inches.

Digitized by Google

VALVE COUPLING FOR LEAD OR IRON PIPE.

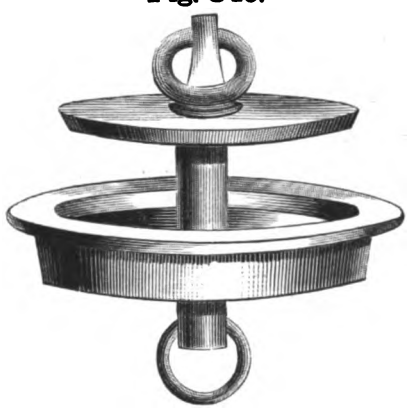
Fig. 345.



Sizes, ½, ¾, 1, 1¼, 1½. 1¾, 2, 2½ inches.

BATH VALVES.

Fig. 346.



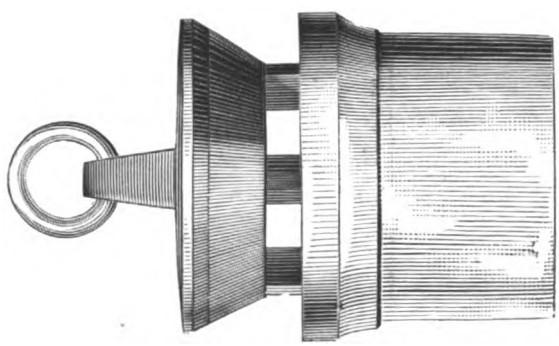
2 inch.

Fig. 347.

Sizes, ¾, 1, 1¼ inches.

BASIN VALVE.

Fig. 348



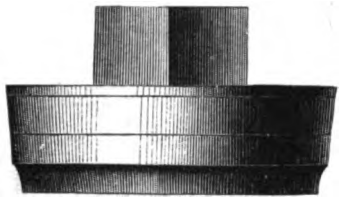
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

BATH WASTE WITH STAND PIPE.
Fig. 349.

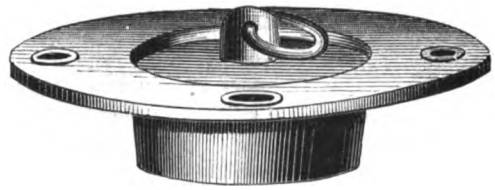
Sizes, 1, 1¼, 1½ inches.

TRAP SCREW.
Fig. 350.



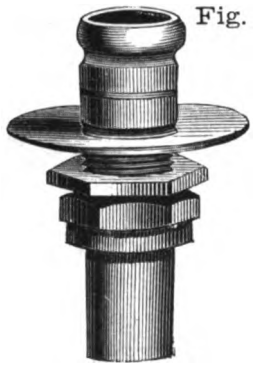
Sizes, 1, 1¼, 1½, 2, 2½, 3, 4 inches.

WASH TRAY PLUG.
Fig. 351.



Sizes, 1, 1¼, 1½, 1⅝, 2, 2½ inches.

BATH WASTE & WASHER FOR IRON TUB.
Fig. 352.

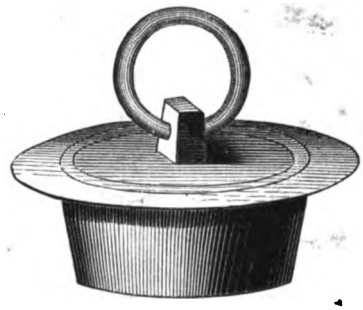


Sizes, 1¼, 1½ inches.

BATH WASTE AND WASHER.
Fig. 353.

Sizes, 1, 1¼, 1½, 2, 2½, 3, 4 inches.

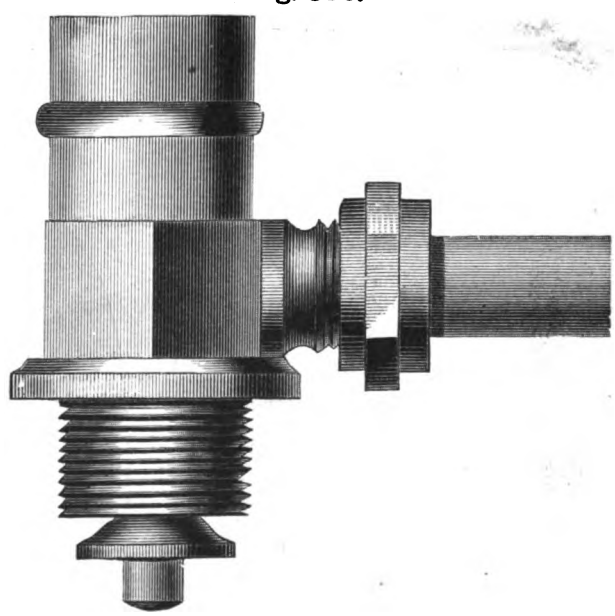
SINK PLUG.
Fig. 354.



Finished and Plated. Sizes, 1, 1¼, 1½, 1⅝, 2, 2½ inches.

VACUM VALVE.
FOR LEAD OR IRON PIPE.
Fig. 355.

VACUM VALVE WITH COUPLING.
FOR LEAD OR IRON PIPE.
Fig. 356.



Digitized by Google

SAFETY VALVE FOR BOILERS.

Fig. 357.

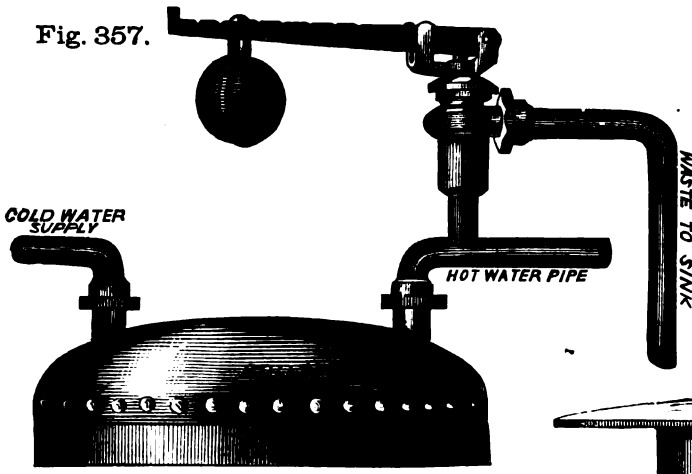
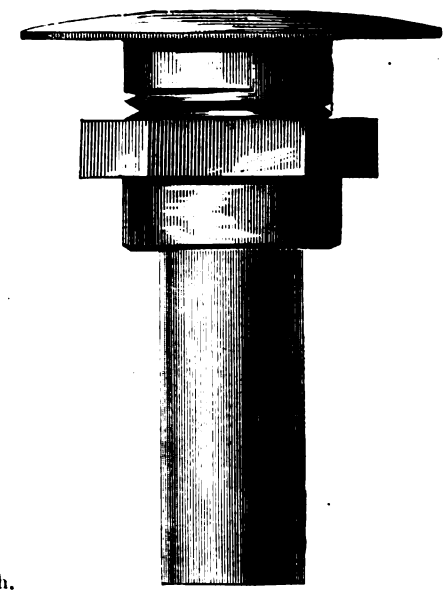


Fig. 359.



BOILER COUPLINGS.

Fig. 358.

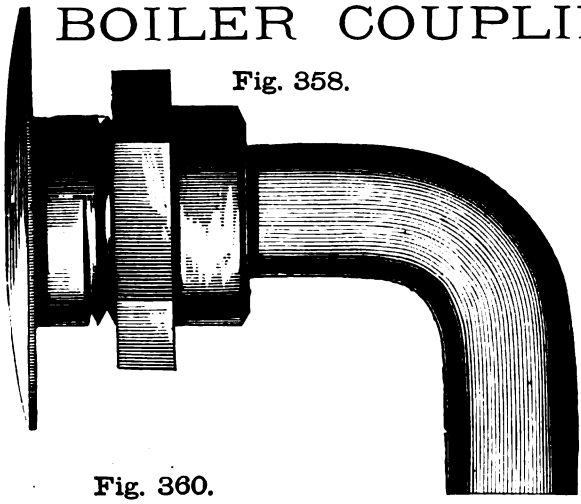


Fig. 360.

Sizes, ¼, 1 inch.

WATER-BACK COUPLINGS.

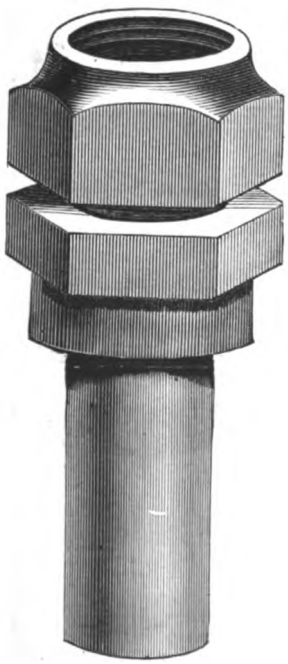
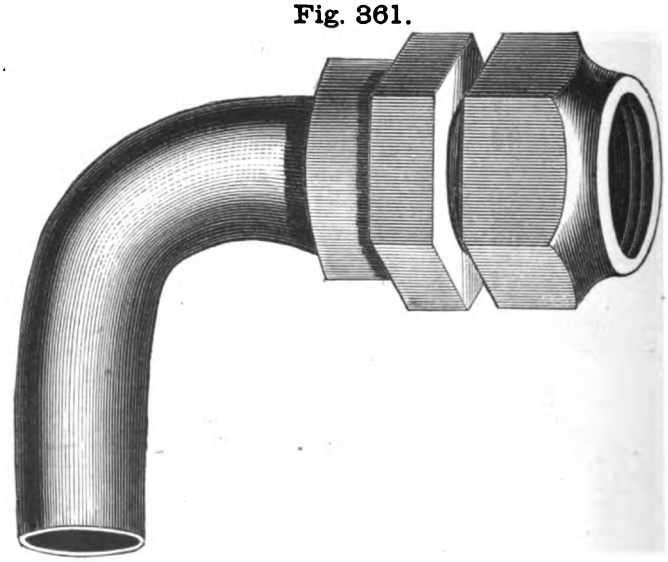


Fig. 361.



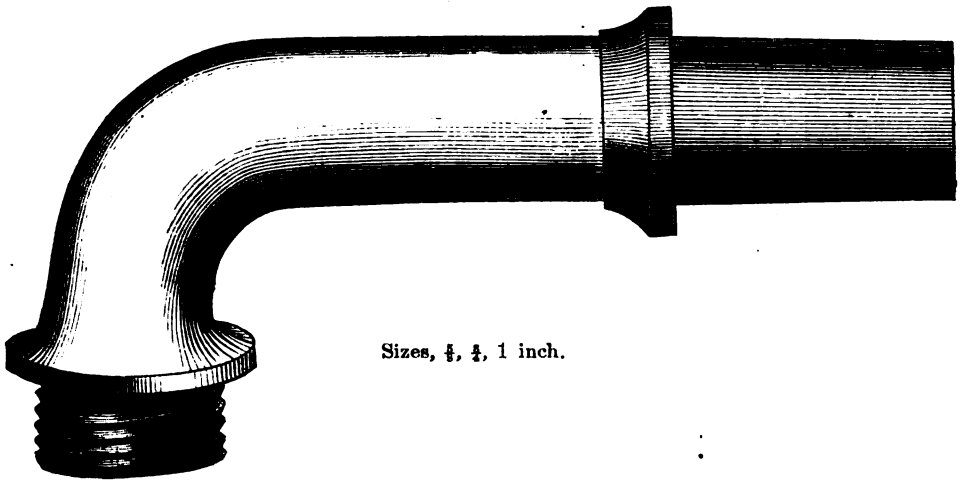
Sizes, ½, ¾, 1 inch.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

HYDRANT NOZZLES.

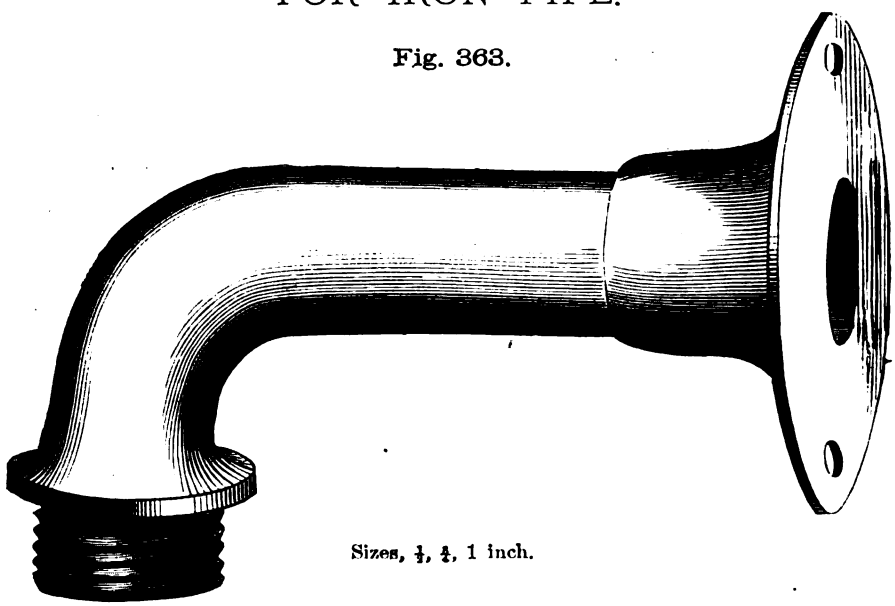
Fig. 362.



Sizes, ½, ¾, 1 inch.

FOR IRON PIPE.

Fig. 363.

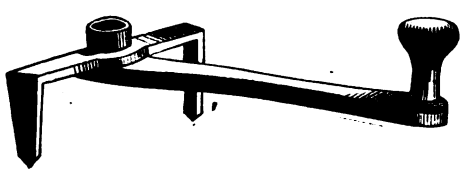


Sizes, ½, ¾, 1 inch.

HYDRANT STAYS AND HANDLES.

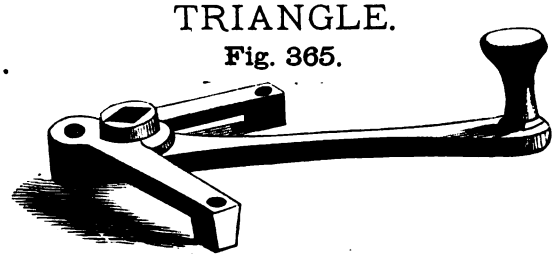
STRAIGHT.

Fig. 364.



TRIANGLE.

Fig. 365.

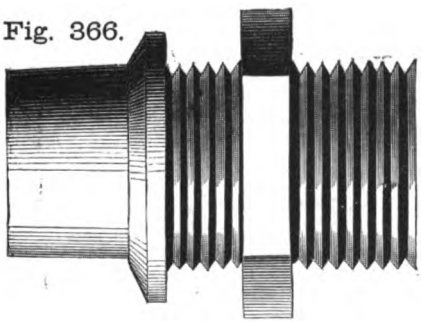


Digitized by Google

STREET WASHER SCREWS.

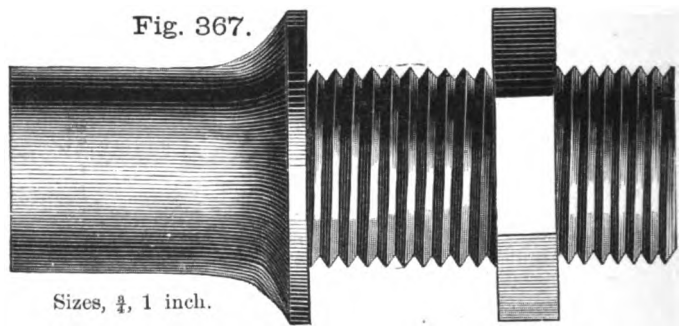
SHORT.

Fig. 366.



LONG.

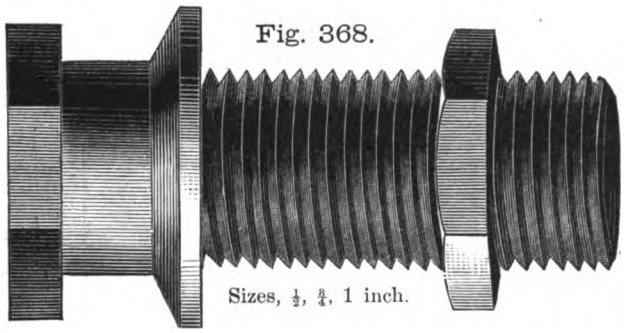
Fig. 367.



Sizes, ¾, 1 inch.

FOR IRON PIPE.

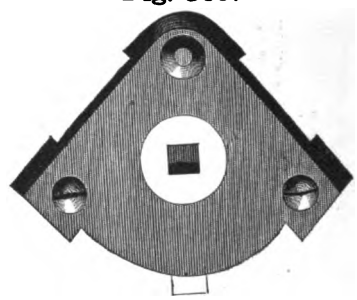
Fig. 368.



Sizes, ½, ¾, 1 inch.

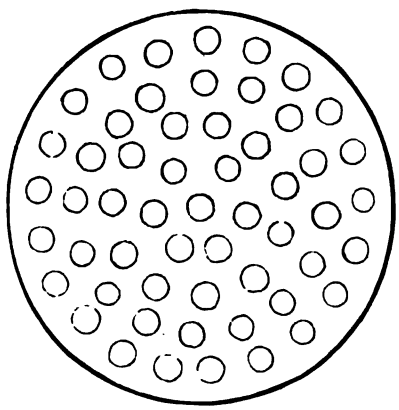
STREET WASHER CHECK.

Fig. 369.



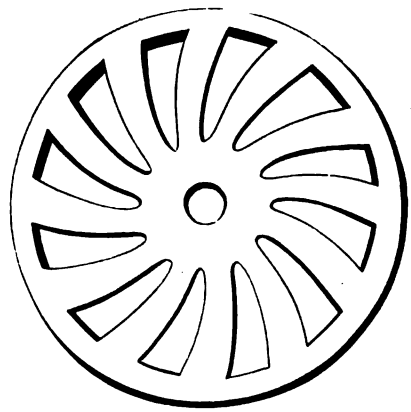
ROUND HOLE STRAINER.

Fig. 370.



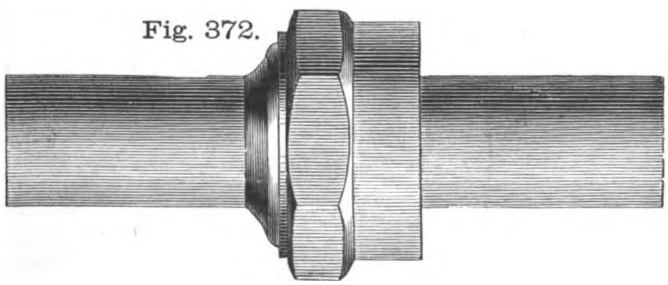
FANCY STRAINER.

Fig. 371.



PLAIN COUPLING.

Fig. 372.



Sizes, ⅛, ¼, ⅜, ½, ¾, 1, 1¼, 1½, 1¾, 2, 2½, 3 inches.

HOSE BIBB END.

Fig. 373.

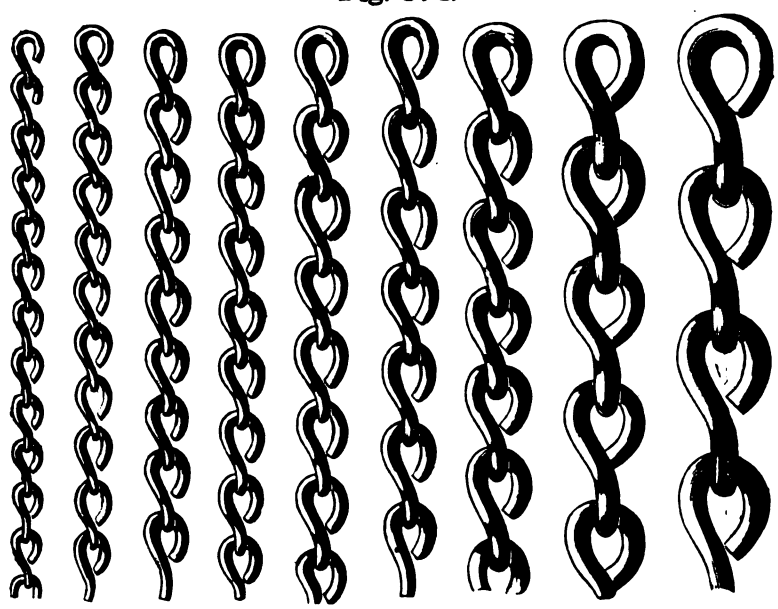
For ½, ¾, ¾, 1, 1¼, 1½, 2 inch Bibbs.

A. CARR, MANUFACTURER, NEW YORK.

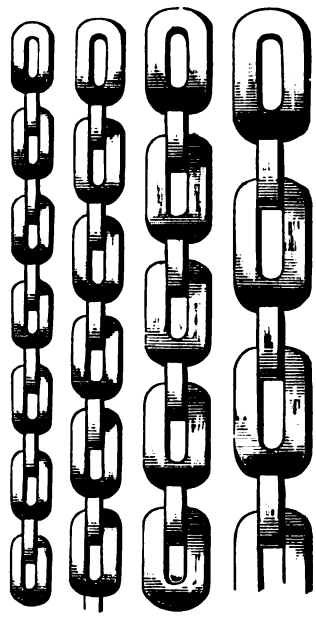
Digitized by Google

BRASS CHAIN, PLAIN AND PLATED.

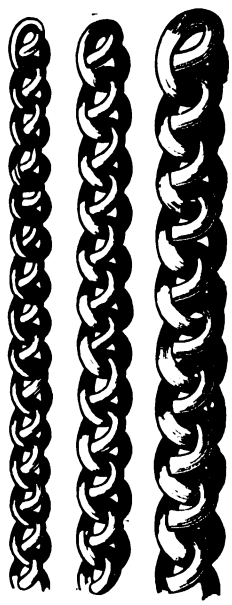
SINGLE CHAIN.
Fig. 374.



SAFETY CHAIN.
Fig. 375.



DOUBLE CHAIN.
Fig. 376.



BASIN CLAMPS.

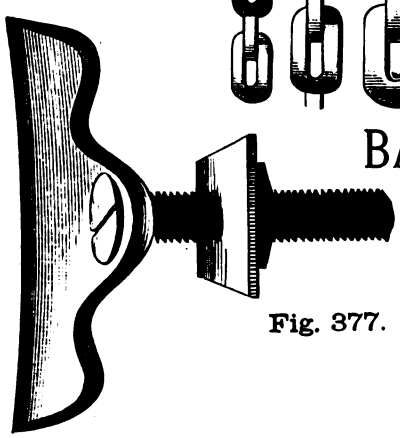
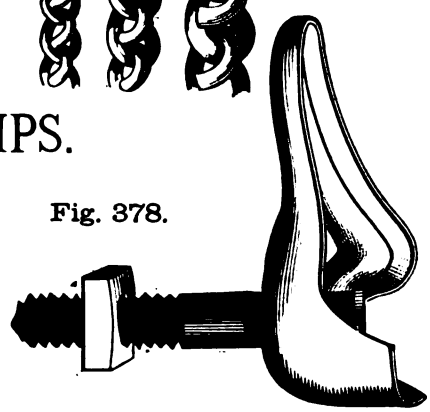


Fig. 377.

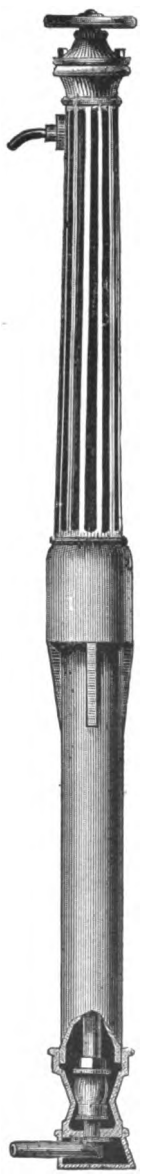
Fig. 378.



Digitized by Google

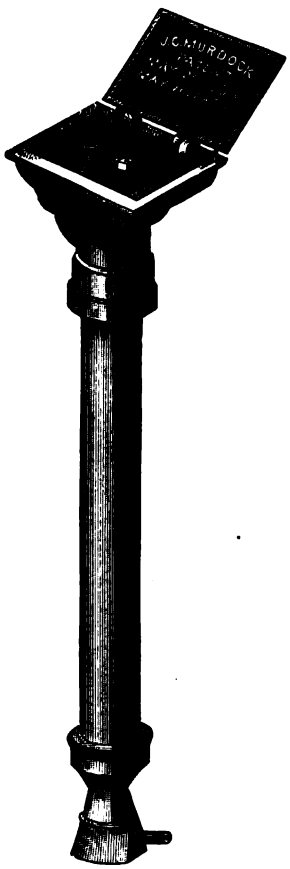
MURDOCK'S PATENT HYDRANT & HOSE BOX.

Fig. 378.



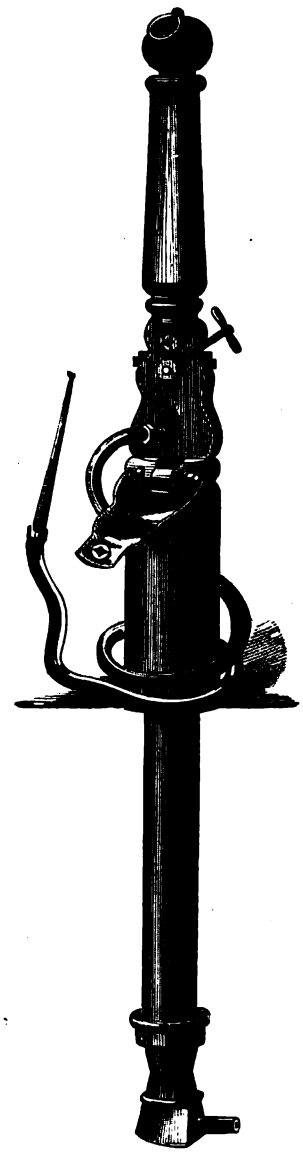
Hydrant.

Fig. 379.



Hose Box.

Fig. 380.



Hose Box with Hitching Post.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

HYDRANTS.

BARTHOLEMEW'S PATENT.

Fig. 381.

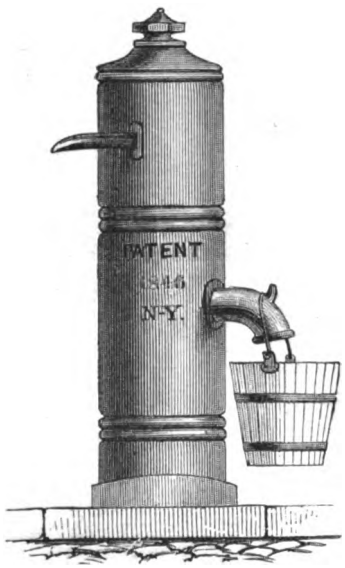
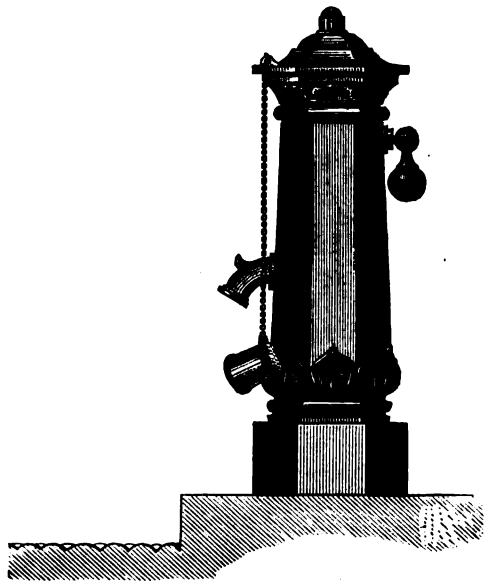
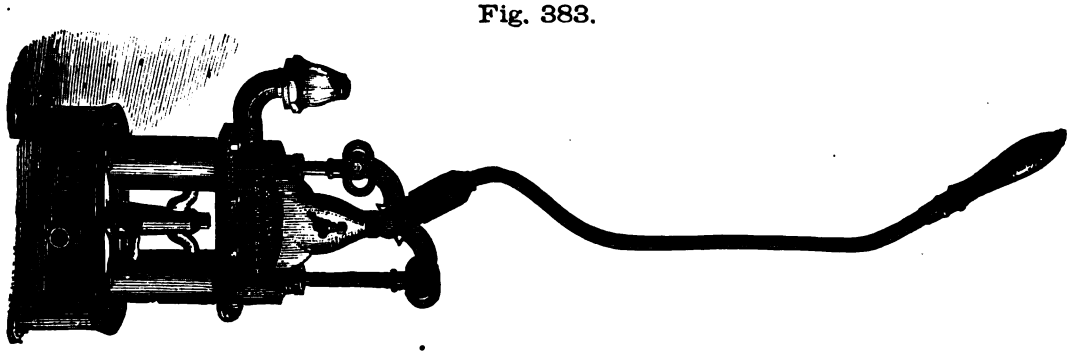


Fig. 382.



BAXTER'S PATENT LIFT AND FORCE PUMP.

Fig. 383.



Digitized by Google

PLUMBER'S COPPER WORK.

Fig. 384.

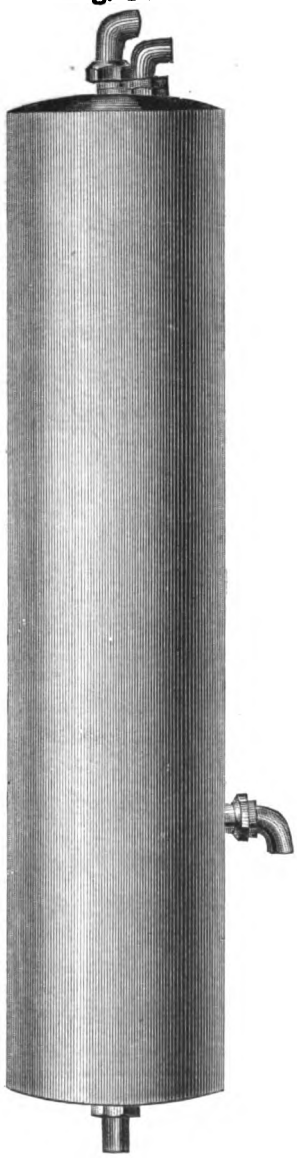
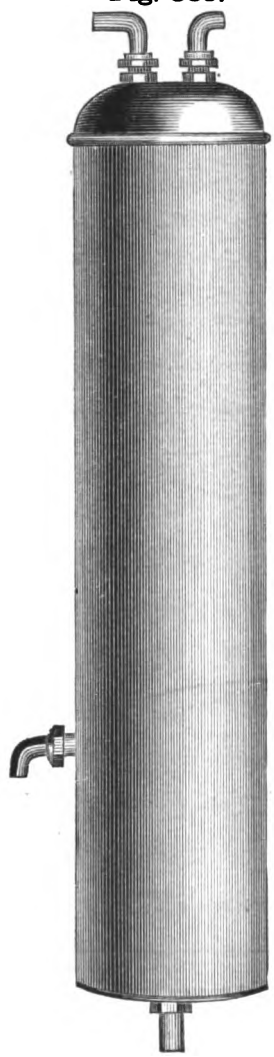
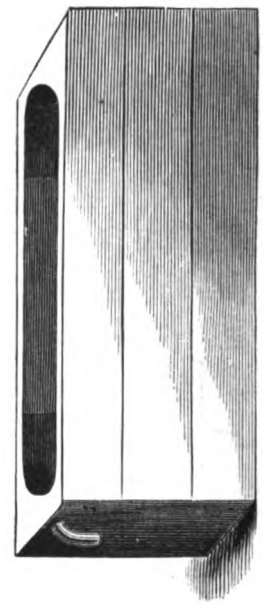


Fig. 385.



FRENCH BATH TUB.

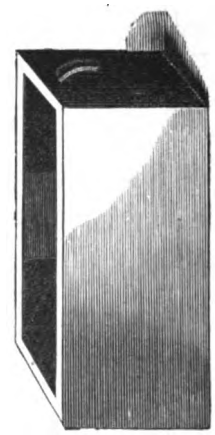
Fig. 387.



Size, 4 feet 6 inches long.

FOOT-BATH TUB.

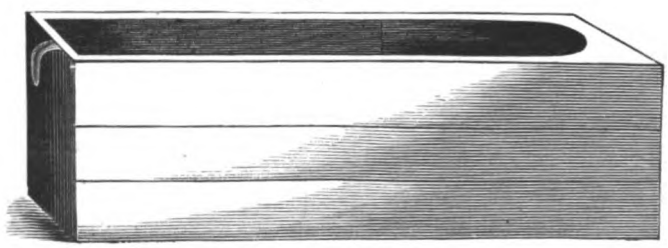
Fig. 386.



Size, 1 foot 8 inches.

BATH TUB.

Fig. 388.



Sizes, 5, 5½, and 6 feet.

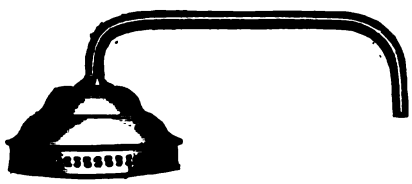
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

PLUMBER'S COPPER WORK.

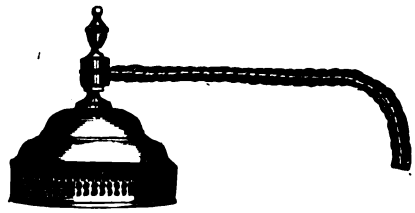
SHOWERS.

Fig. 389.



Plain.

Fig. 390.

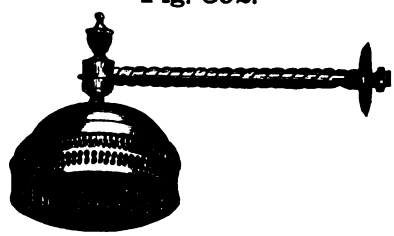


Fancy.

Fig. 391.

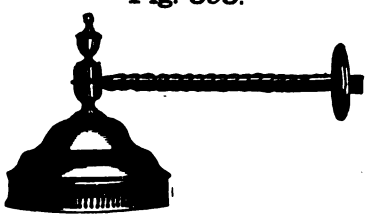
Fancy Tubular.

Fig. 392.



Fancy Tubular with Flange and Thimble.

Fig. 393.



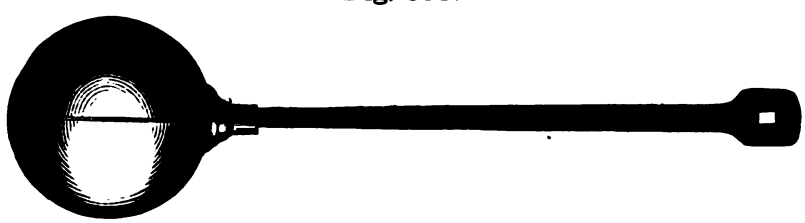
Fancy with Flange and Thimble.

Fig. 394.

Tubular.

COPPER BALL FOR BALL COCKS.

Fig. 395.



Sizes, 4, 5, 6, 7, 8, 9, 10, 12 inches.

COPPER SINKS.

Fig. 396.

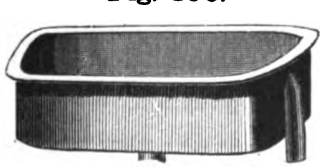


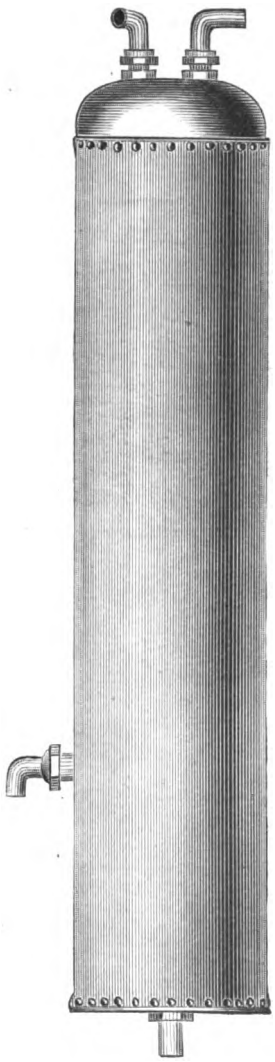
Fig. 397.

Sizes, 12x20, 13x21, 14x16, 14x20, 14x24, 16x24, 18x30.

Digitized by Google

GALVANIZED IRON BOILER.

Fig. 398.



Capacity.	Size.
18 gallons.	3 ft. by 12 ins.
21 "	3½ " 12 "
24 "	4 " 12 "
30 "	5 " 12 "
36 "	6 " 12 "
24 "	3 " 14 "
28 "	3½ " 14 "
33 "	4 " 14 "
36 "	4½ " 14 "
40 "	5 " 14 "
48 "	6 " 14 "
42 "	4 " 16 "
52 "	5 " 16 "
63 "	6 " 16 "
53 "	4 " 18 "
66 "	5 " 18 "
79 "	6 " 18 "
82 "	5 " 20 "
98 "	6 " 20 "
100 "	5 " 22 "
120 "	6 " 22 "
120 "	5 " 24 "
144 "	6 " 24 "
192 "	8 " 24 "

Couplings and Tube extra when furnished.

CAST LEAD TRAPS & BENDS,

LOWE'S PATENT.

Fig. 399.

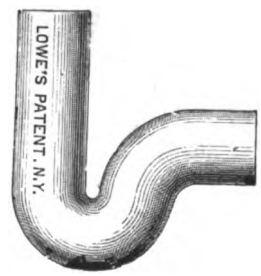


Fig. 400.

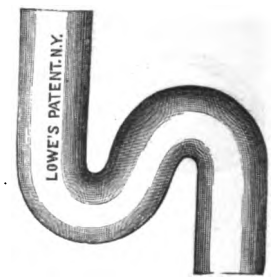


Fig. 401.

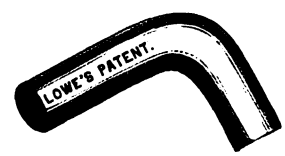


Fig. 402.

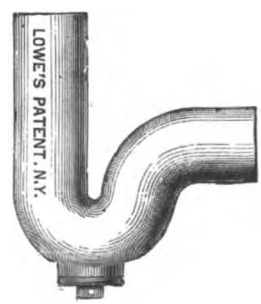
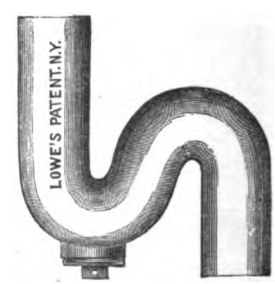


Fig. 402½



A. CARR, MANUFACTURER, NEW YORK.

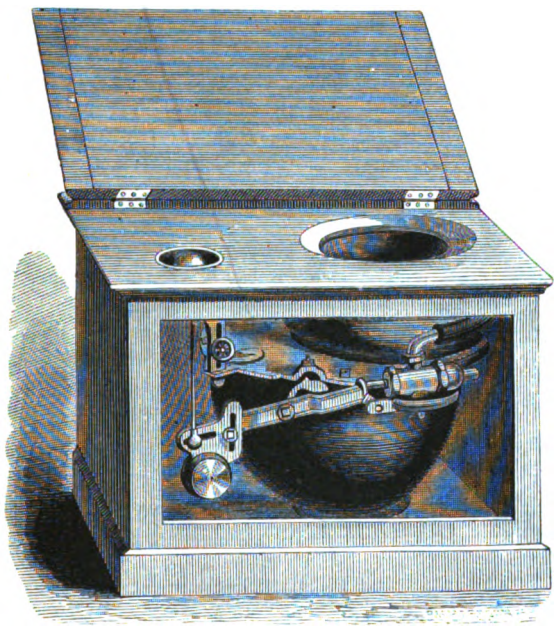
Digitized by Google

WATER CLOSETS.

COMPLETE, IN BLACK WALNUT CASE.

CARR'S PATENT.

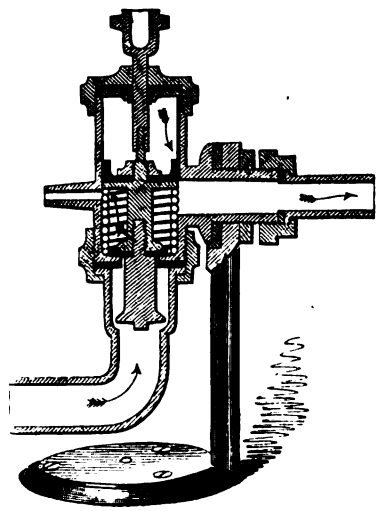
Fig. 403.



DOUBLE ACTION VALVE.

CARR'S PATENT.

Fig. 404.

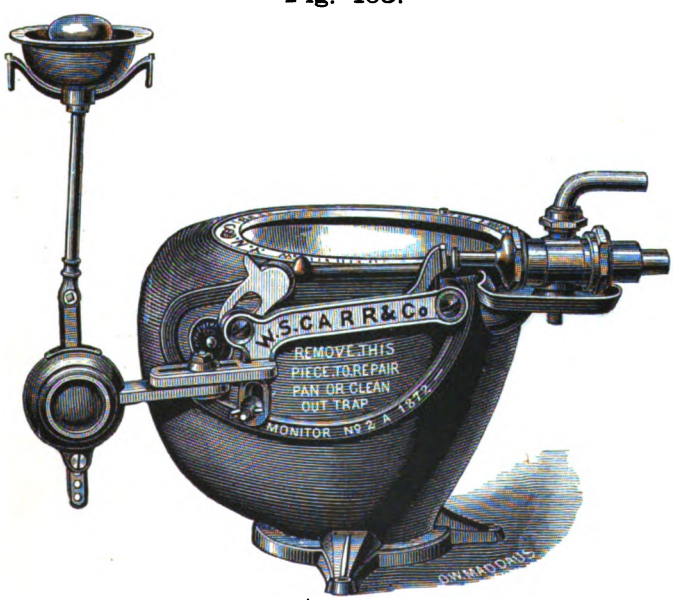


Sectional View.

MONITOR VALVE CLOSET.

CARR'S PATENT.

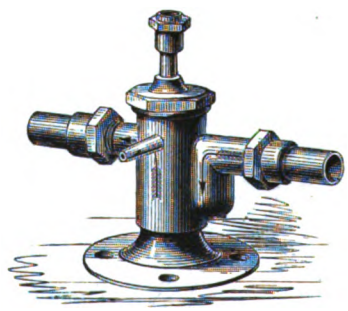
Fig. 405.



SINGLE ACTION VALVE.

CARR'S PATENT.

Fig. 406.



Digitized by Google

WATER CLOSETS.

No. 2 A PAN WATER CLOSET.

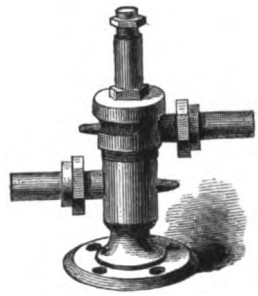
CARR'S PATENT.

Fig. 407.

With Self-Acting Supply Valve.

WATER WASTE PREVENTER VALVE.

Fig. 408.

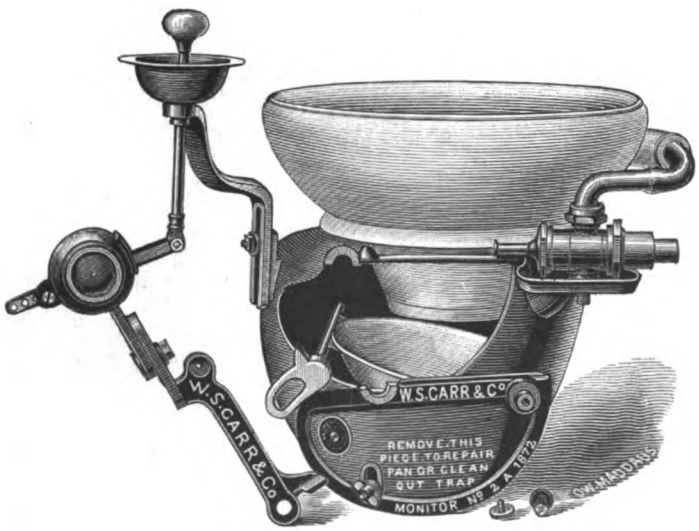


Runs when relieved of weight.

VALVE CLOSET.

CARR'S PATENT.

Fig. 409.



Sectional View.

BASIN JOINT.

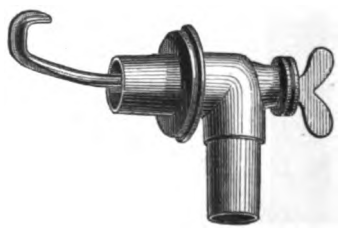


Fig. 410.

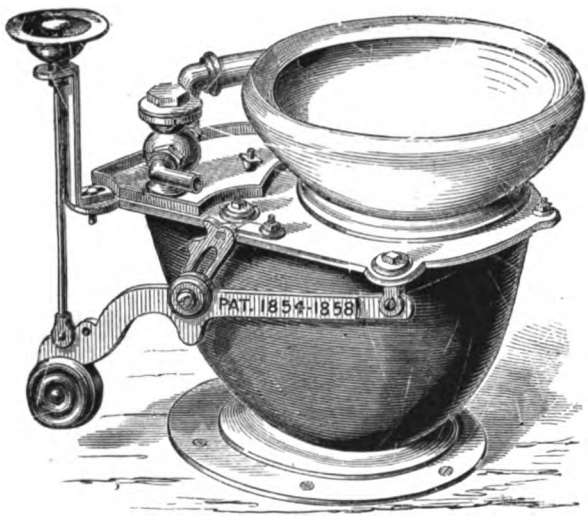
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

WATER CLOSETS.

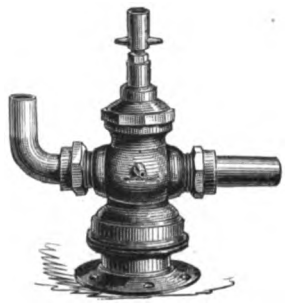
BARTHOLEMEW'S PATENT.

Fig. 411.



BARTHOLEMEW'S DOUBLE VALVE.

Fig. 412.



Runs when relieved of weight

CRAGIE'S PATENT.

Fig. 413.

With Bidet Attachment.

Digitized by Google

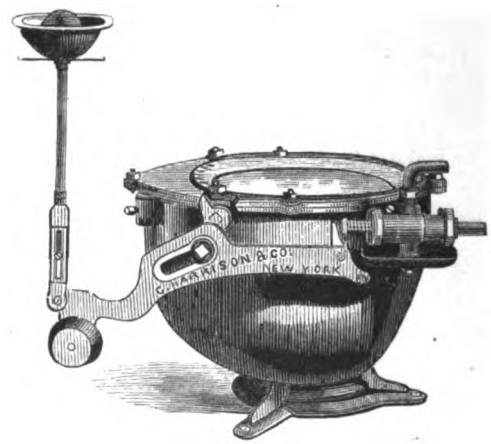
WATER CLOSETS.

EMPIRE CLOSET.

Fig. 414.

EUREKA CLOSET.

Fig. 415.

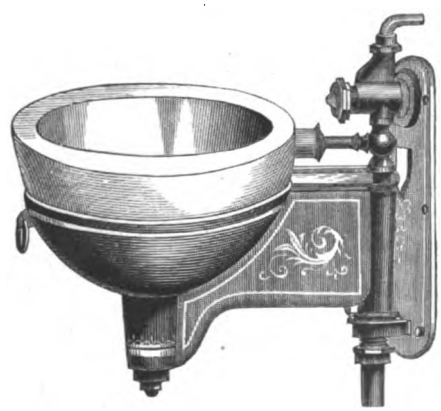


SWINGING URINAL.

WITH WHITE OR FANCY BOWL.

CARR'S PATENT.

Fig. 416.



Large Swing, 21 ins. Small Swing, 16 ins.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

No. 3 HOPPER STAND,

WITH 9 OR 10 VALVE ATTACHED.

Fig. 421.

To receive any kind of Closet Basin.

No. 4 HOPPER CLOSET,

WITH 9 OR 10 VALVE ATTACHED.

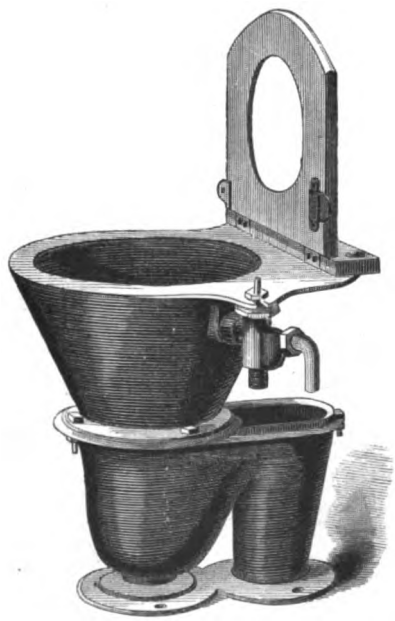
Fig. 422.

Height, 17 inches.

No. 5 HOPPER AND TRAP COMBINED.

WITH SELF-RAISING SEAT AND No. 9, 10, OR 11 VALVE ATTACHED.

Fig. 423.



Height, 17 inches.

No. 6 HOPPER CLOSET,

WITH SELF-RAISING SEAT AND No. 9, 10, OR 11 VALVE ATTACHED.

Fig. 424.

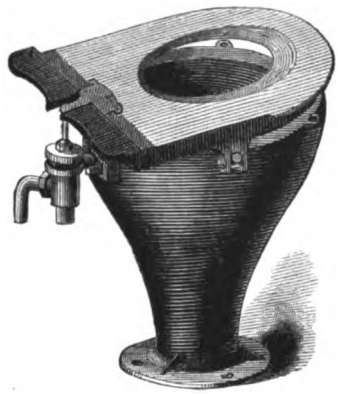
Height, 17 inches.

Digitized by Google

WATER CLOSETS.

HOSPITAL HOPPER CLOSET.

Fig. 425.



With 9, 10, and 11 Valve attached.
Height, 17 inches.

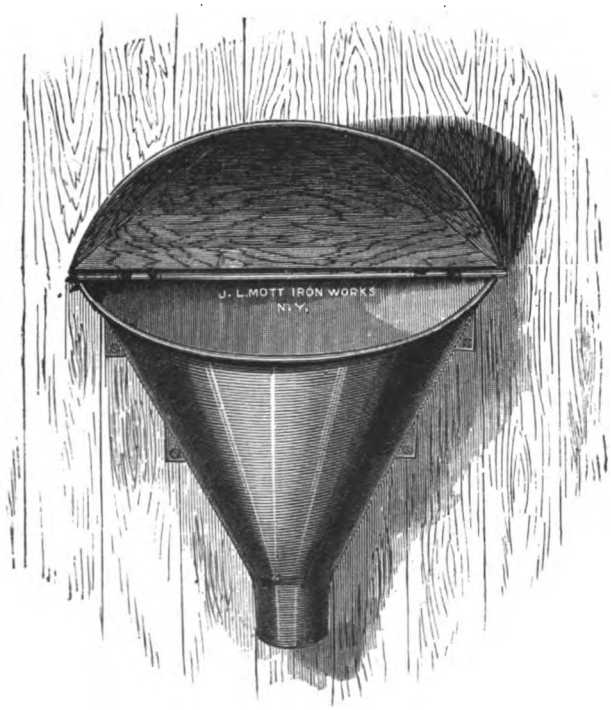
PHILADELPHIA PATTERN HOPPER.

Fig. 426.

Height, 16 inches. 4 inch outlet.

NEW PATTERN SLOP HOPPER.

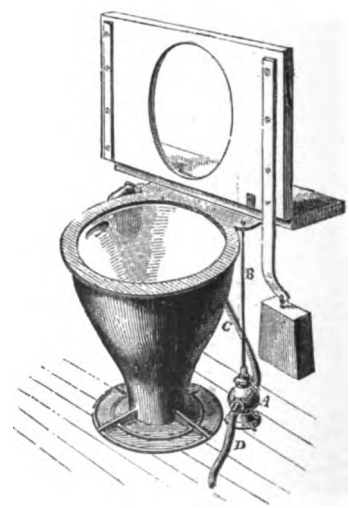
Fig. 427.



ENAMELED HOPPER AND TRAP COMBINED.

BARTHOLEMEW'S PATENT.

Fig. 428.



With Self-Raising Seat.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

MARBLE SLABS, ITALIAN AND AMERICAN.

COUNTERSUNK AND PLAIN.

When ordering give the exact size; if with back or sides, give the height required, give the size of opening for Basin, and state whether wanted for one or two Cocks.

Fig. 430.

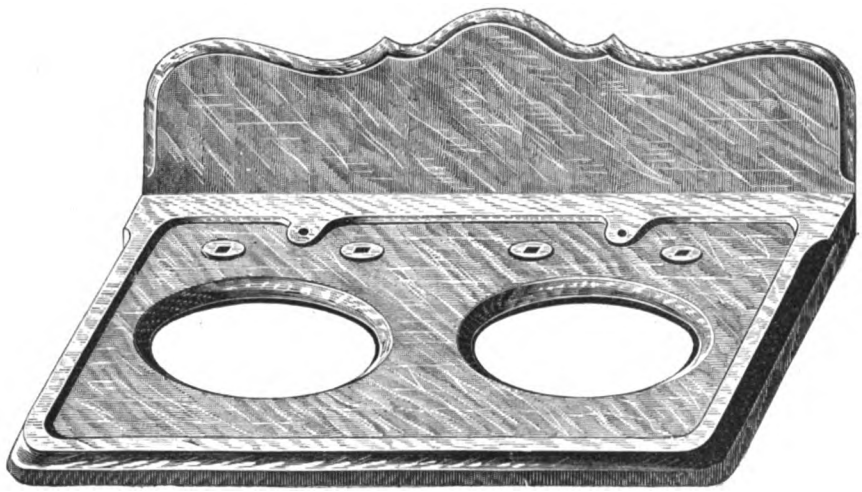


Fig. 431.

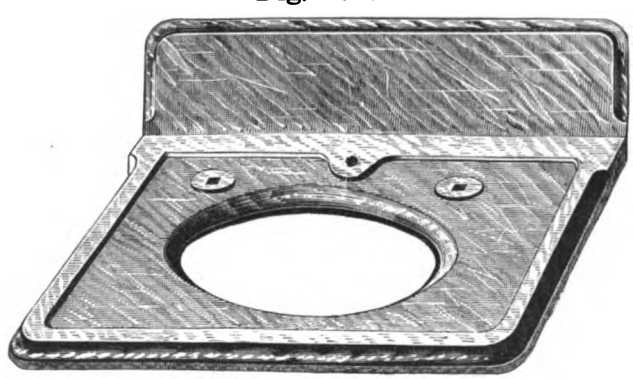
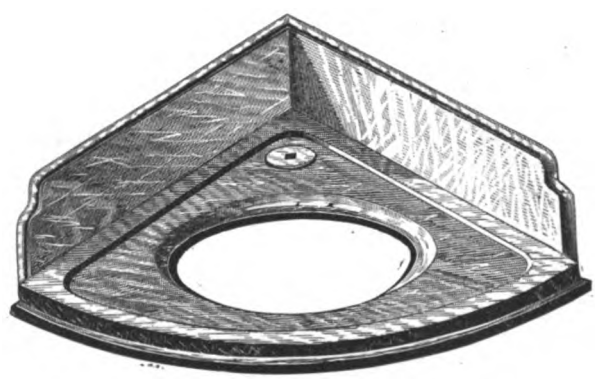


Fig. 432.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

EARTHENWARE SLABS AND BASINS COMBINED.

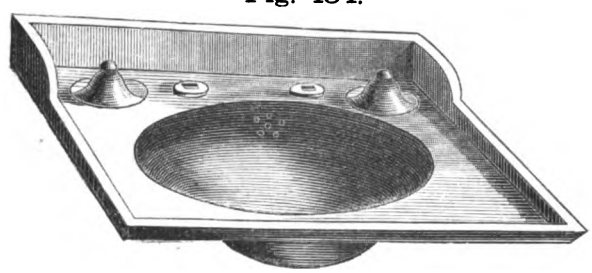
CORNER SLAB, MARBLED.

Fig. 433.

Size, 19 by 19 inches. Size of Basin, 11 inches inside.

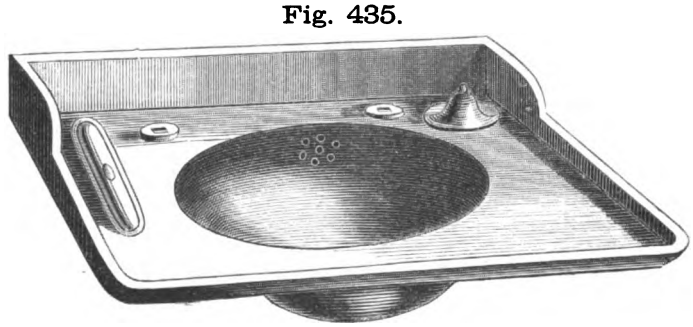
SQUARE SLABS, MARBLED.

Fig. 434.



Size, 18 by 18 inches. Size of Basin, 11 inches inside.

Fig. 435.



Size, 17 by 24 inches. Size of Basin, 12 inches inside.

When ordering the above, always state whether Common Overflow, Patent Overflow, or Rubber Plug is wanted, and if with one or two holes for cocks.

SOAP CUPS & BRUSH TRAYS, MARBLED & WHITE.

Fig. 436.

Fig. 437.

Fig. 438½.

Fig. 438.

These can be decorated to match all Fancy Basins

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

PLUMBER'S EARTHENWARE.

WASH BASINS.

WHITE, MARBLED, AND FANCY COLORS.

Fig. 439.

Common Overflow. All sizes from 9 to 20 inches, outside measure.

Fig. 440.

Patent Overflow. All sizes from 12 to 16 inches, outside measure.

MARBLED WASH BASIN.

Fig. 441.

Patent Overflow and Rubber Plug. All sizes from 12 to 16 inches, outside measure.

CLOSET BASINS.

WHITE, MARBLED, AND BLUE.

Fig. 441½.

French Pattern.

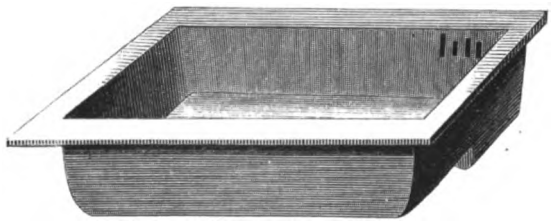
Fig. 442.

Oval Pattern.

Digitized by Google

EARTHEN SINK.

Fig. 443.



White, all sizes, from 12 × 20 to 17 × 25 inches.

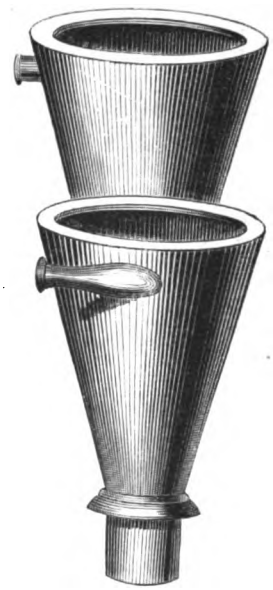
EARTHEN SLOP HOPPER.

Fig. 445.

With Strainer 3 and 4 inch opening. Large size, 20 inches.
Small size, 16 inches.

EARTHEN HOPPERS.

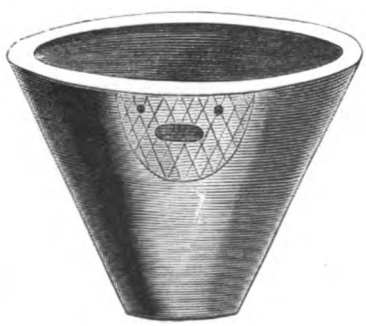
Fig. 444.



With Straight or Side Arm, 4 inch opening.

SHIP CLOSET BASINS.

Fig. 446.



New Pattern.
White 13 inches diameter outside.
Sizes, 3, 3½, 4, 4½ inch opening.

Fig. 447.

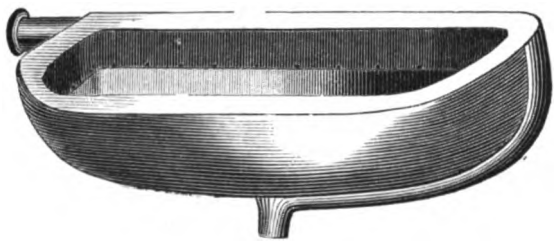
Old Pattern.
White, 13 inches diameter outside.
Sizes, 3, 3½, 4, 4½ inch opening.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

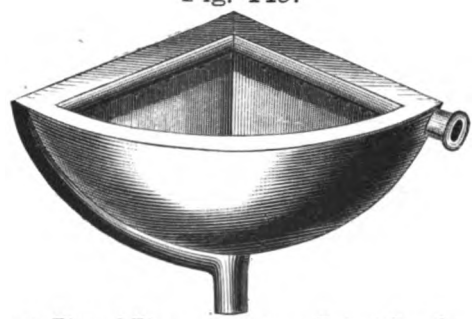
URINALS.

Fig. 448.



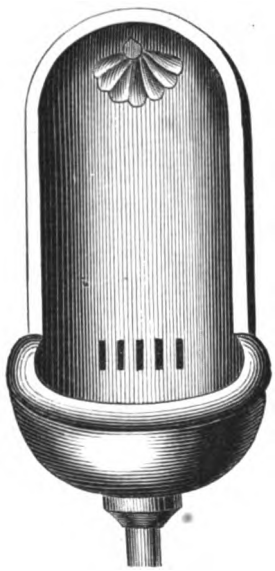
Oblong, Pierced Pipe and Strainer, Patent Overflow.
Large size, 10x18, Small size, 9x15 inches.

Fig. 449.



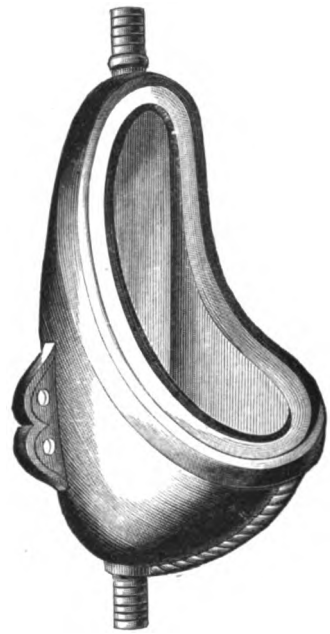
Corner, Pierced Pipe and Strainer, Patent Overflow.
Large size, 12, Small size, 10 inches.

Fig. 450.



Cradle for Recess.
Large size, 14x22, Small size, 12x19 inches.

Fig. 451.



Bedfordshire Flat Back. Patent Overflow.
Large size, 15½x18½, Small size, 12½x16½ inches.

Fig. 452.

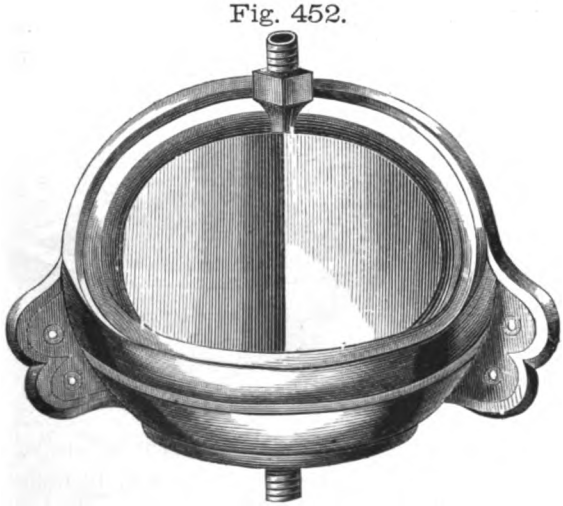


Fig. 453.

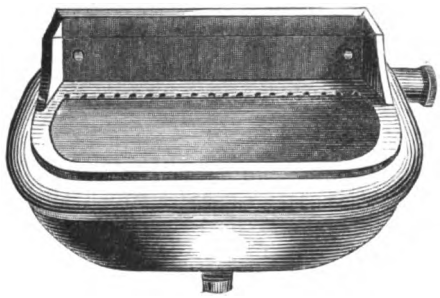
Round Pierced Pipe and Strainer.

Bedfordshire, for Corner, Patent Overflow. Large size, 12½x16½, Small size, 10x16 inches.

Digitized by Google

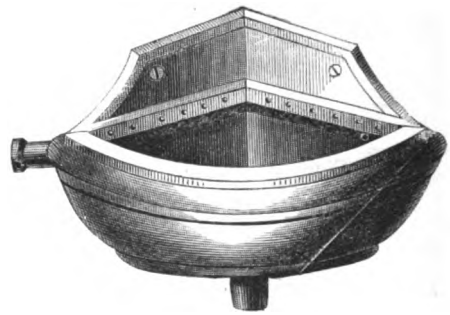
URINALS.

Fig. 454.



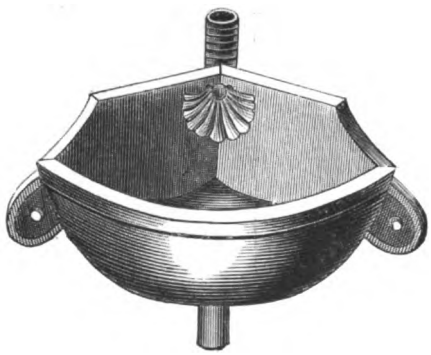
Oblong, Pierced Pipe and Strainer, Patent Overflow.
Large size, 9x15, Small size, 8x12 inches.

Fig. 455.



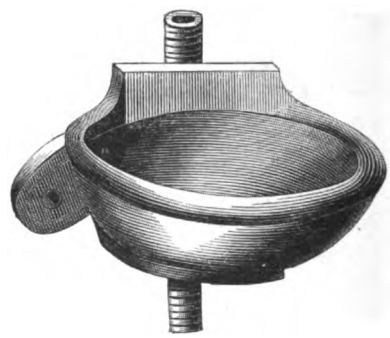
Corner, Pierced Pipe and Strainer, Patent Overflow.
Large size, 12, Small size, 10 inches.

Fig. 456.



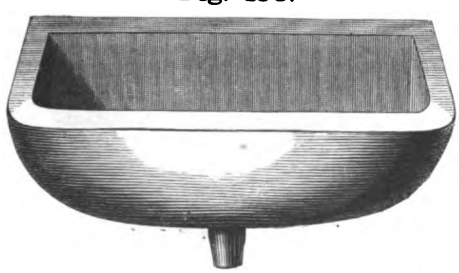
Corner, Cane Color Outside, White Inside,
no Overflow. Size 10 inches.

Fig. 457.



Oblong, Cane Color Outside, White Inside,
no Overflow. Size 9x12 inches.

Fig. 458.



Oblong with Strainer, but no Supply.
Large size, 10x18, Small size 9x15 inches.

Fig. 459.

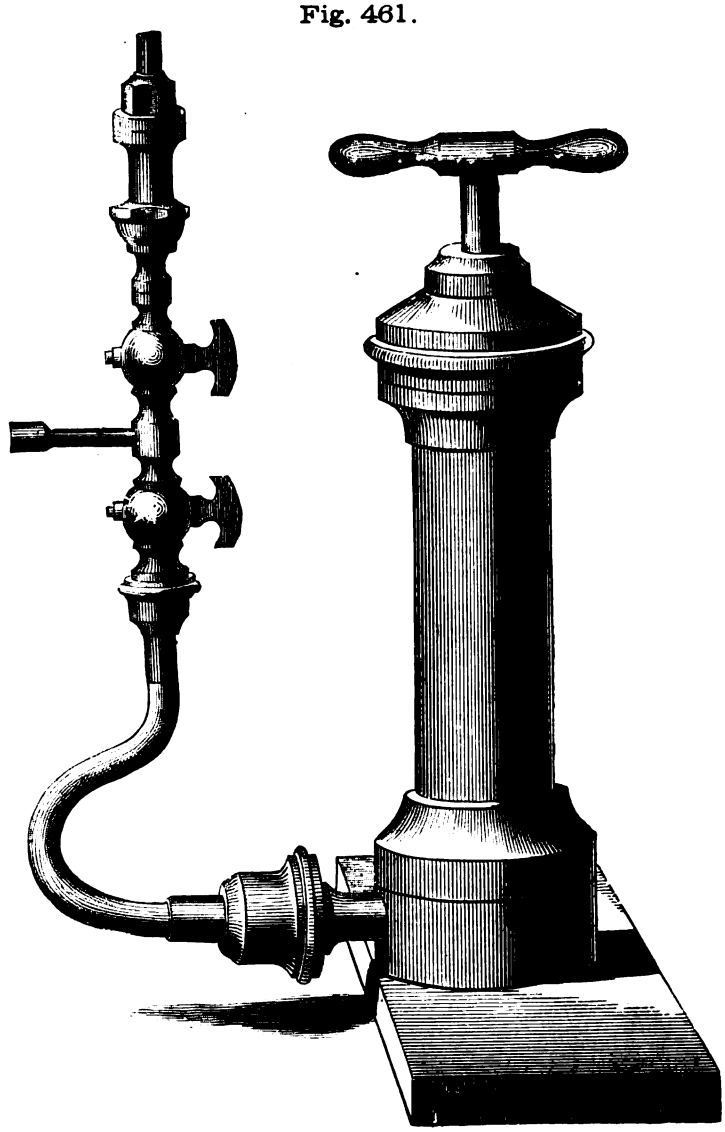
Corner with Strainer, but no Supply.
Large size, 12, Small size, 10 inches.

Digitized by Google

BRASS PROOF PUMP,

FOR GAS FITTERS' USE.

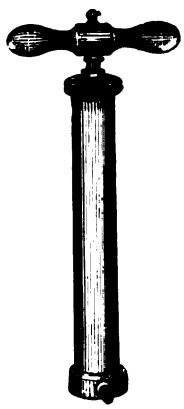
Fig. 461.



TESTING PUMP,

FOR GAS FITTERS' USE.

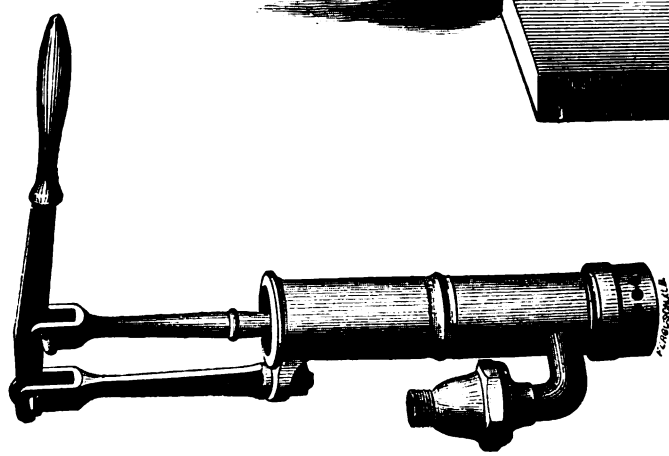
Fig. 460.



FORCE OR PRESSURE PUMP,

FOR PLUMBERS FOR CLEARING OBSTRUCTED PIPES.

Fig. 462.

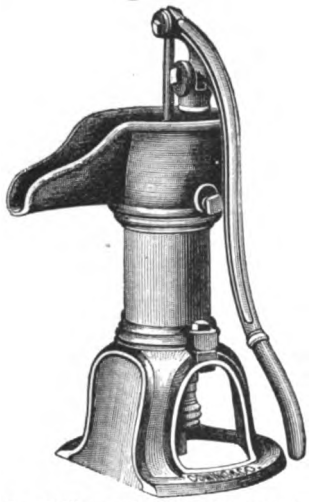


Digitized by Google

PATENT PITCHER SPOUT PUMP,

FOR THE AMERICAN DRIVEN WELL.

Fig. 463.

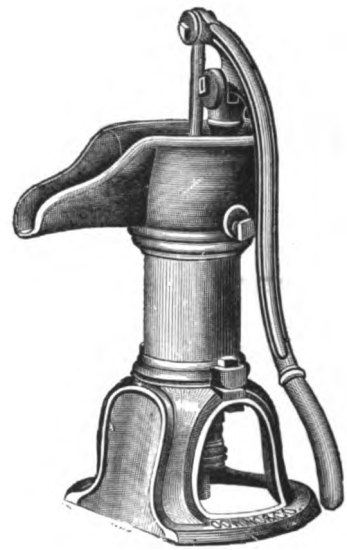


No. 1, 3 inches Calibre, suitable for Pipe 1¼ inches Calibre.
" 2, 3½ " " " 1½ "
" 3, 4 " " " 1¼ "
" 4, 4½ " " " 1¼ "

PATENT SAND PUMP,

FOR CLEARING NEW WELLS.

Fig. 464.

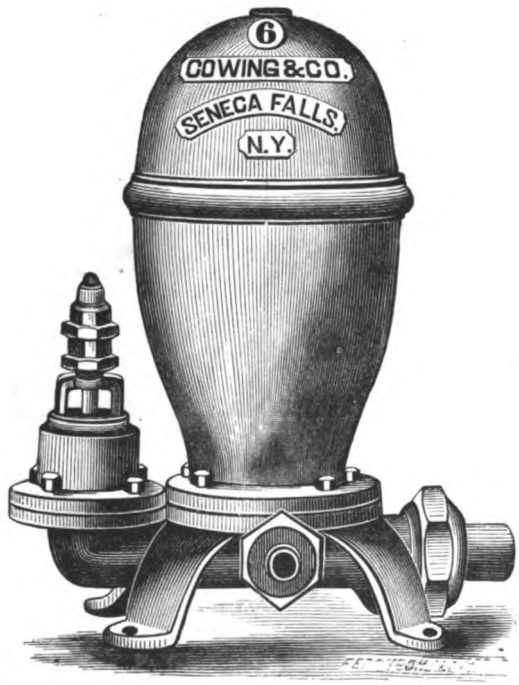


Designed for the use of professional well drivers in clearing new wells.
4½ inches Calibre, suitable for Pipe 1¼ inches Calibre.

IMPROVED HYDRAULIC RAM,

FOR SUPPLYING DWELLINGS, ETC., WITH RUNNING WATER.

Fig. 465.

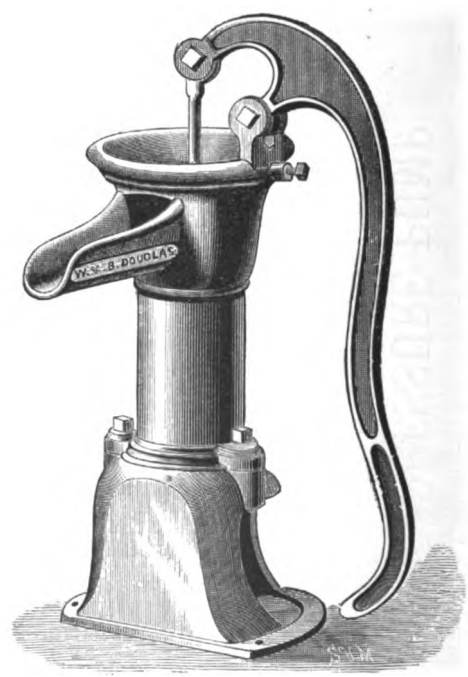


We make six sizes, fitted for attaching Lead or Wrought Iron Pipes, as follows:

Size of Ram.	Calibre of Drive Pipe.	Calibre of Discharge Pipe.	Length of Drive Pipe.	Length of Discharge Pipe.
2	¾ inch.	¾ inch.	40 to 50 feet.	To where desired.
3	1 "	1 "	40 to 50 "	
4	1¼ "	1¼ "	40 to 50 "	
5	2 "	1½ "	40 to 50 "	
6	2½ "	2 "	40 to 60 "	
7	4 "	2 "	50 to 80 "	

BOLT FASTENED, PATENT PITCHER, SPOUT PUMP.

Fig. 466.



No. 1, 2½ inch bore, suitable for ¾ or 1 inch Pipes.
" 2, 2 " " 1 or 1¼ "
" 3, 3½ " " 1¼ or 1½ "
" 4, 4 " " 1½ or 1¾ "

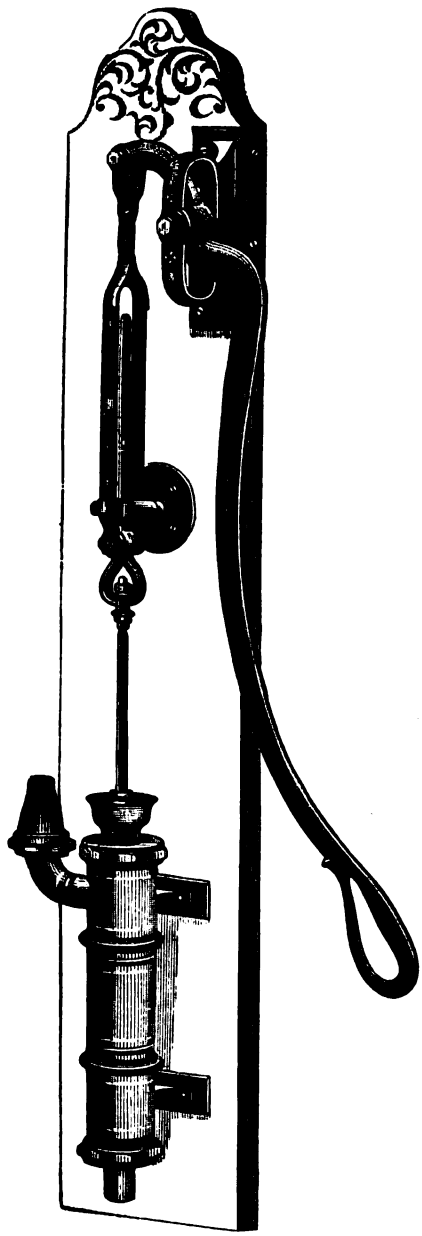
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

IRON FORCE PUMPS.

MOUNTED ON PLANK.

No. 135. **Fig. 467.**

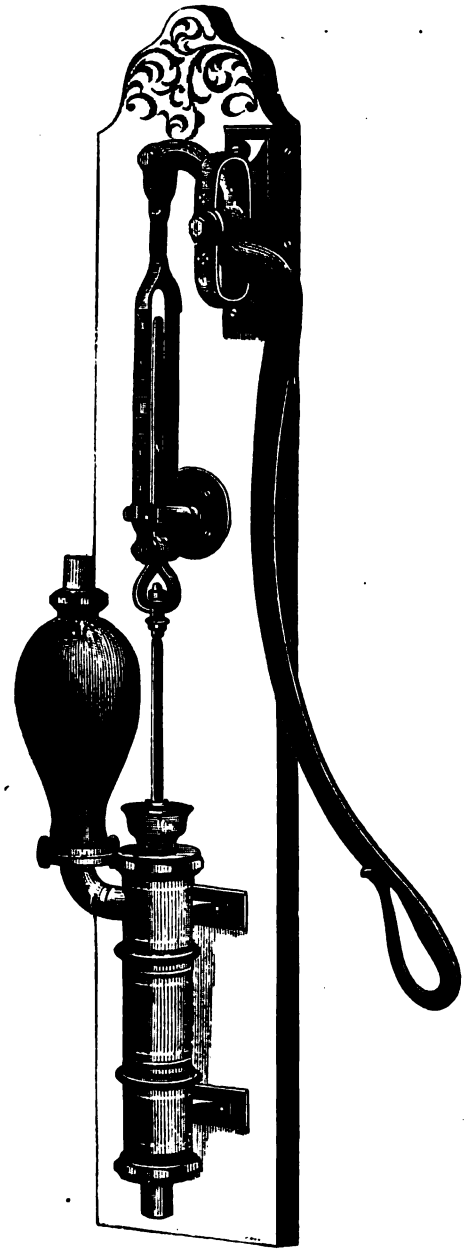


WITH CONNECTING ROD AND GUIDE.

We sell three sizes, right and left handed, fitted for attaching lead or iron pipes, without extra fittings, as follows, viz.:

No. 1, 2 inches calibre, suitable for pipes 1 and 1¼ inch calibre.
" 2, 2½ " " " " " 1¼ " "
" 3, 3 " " " " " 1¼ & 1½ " "

No. 136. **Fig. 468.**



WITH CONNECTING ROD, GUIDE AND AIR-CHAMBER.

We sell three sizes, right and left handed, fitted for lead or iron pipes, without extra fittings, as follows, viz.:

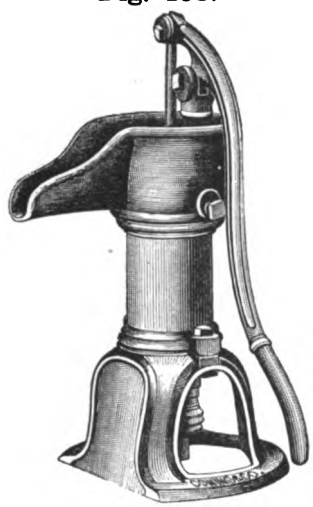
No. 1, 2 inches calibre, suitable for pipes 1 and 1¼ inch calibre.
" 2, 2½ " " " " " 1¼ " "
" 3, 3 " " " " " 1¼ & 1½ " "

Digitized by Google

PATENT PITCHER SPOUT PUMP,

FOR THE AMERICAN DRIVEN WELL.

Fig. 463.

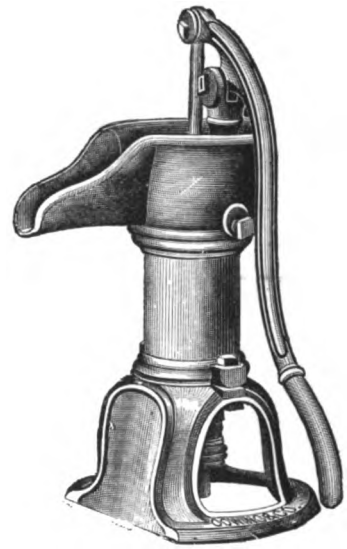


No. 1, 3	inches Calibre,	suitable for	Pipe	1¼	inches Calibre.
" 2, 3½	"	"	"	1¼	"
" 3, 4	"	"	"	1¼	"
" 4, 4½	"	"	"	1¼	"

PATENT SAND PUMP,

FOR CLEARING NEW WELLS.

Fig. 464.

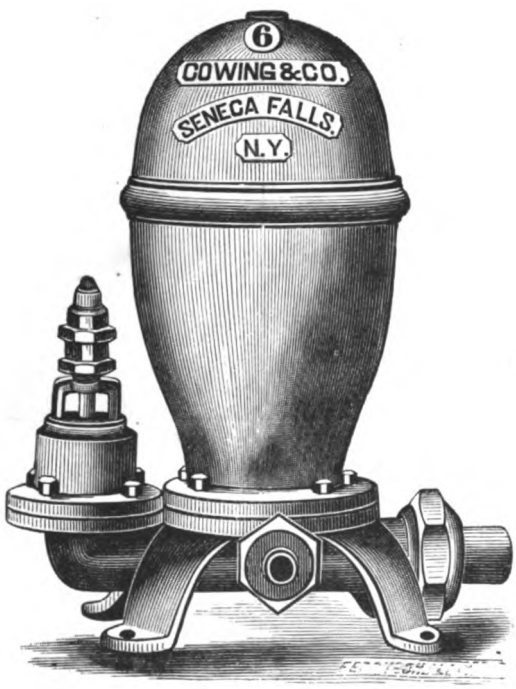


Designed for the use of professional well drivers in clearing new wells.
4½ inches Calibre, suitable for Pipe 1¼ inches Calibre.

IMPROVED HYDRAULIC RAM,

FOR SUPPLYING DWELLINGS, ETC., WITH RUNNING WATER.

Fig. 465.



We make six sizes, fitted for attaching Lead or Wrought Iron Pipes, as follows:

Size of Ram.	Calibre of Drive Pipe.	Calibre of Discharge Pipe.	Length of Drive Pipe.	Length of Discharge Pipe.
2	¾ inch.	⅜ inch.	40 to 50 feet.	To where desired.
3	1 "	½ "	40 to 50 "	
4	1¼ "	⅝ "	40 to 50 "	
5	2 "	¾ "	40 to 50 "	
6	2½ "	1 "	40 to 60 "	
7	4 "	2 "	50 to 80 "	

BOLT FASTENED, PATENT PITCHER, SPOUT PUMP.

Fig. 466.

No. 1, 2½	inch bore,	suitable for	¾ or 1	inch Pipes.	
" 2, 2	"	"	1 or 1¼	"	
" 3, 3½	"	"	1¼ or 1½	"	
" 4, 4	"	"	1½ or 1¾	"	

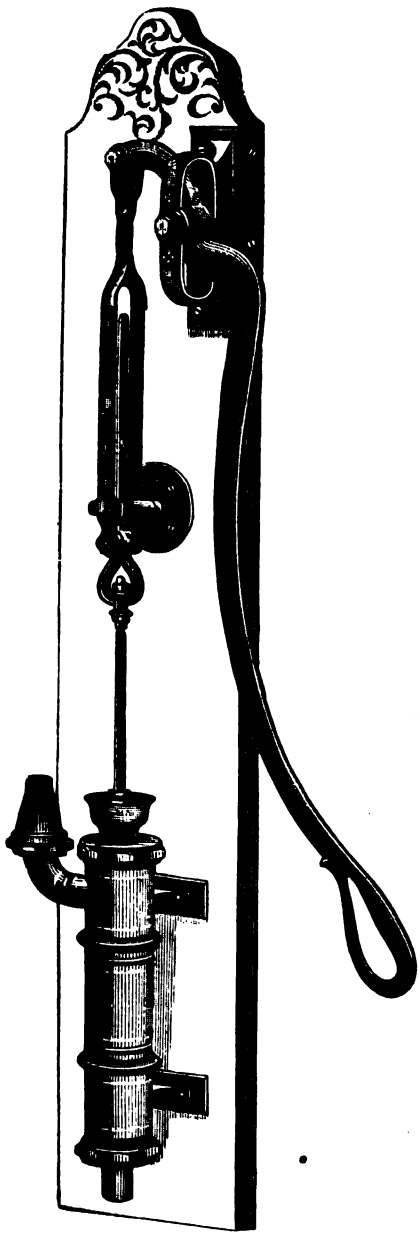
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

IRON FORCE PUMPS.

MOUNTED ON PLANK.

No. 135. **Fig. 467.**

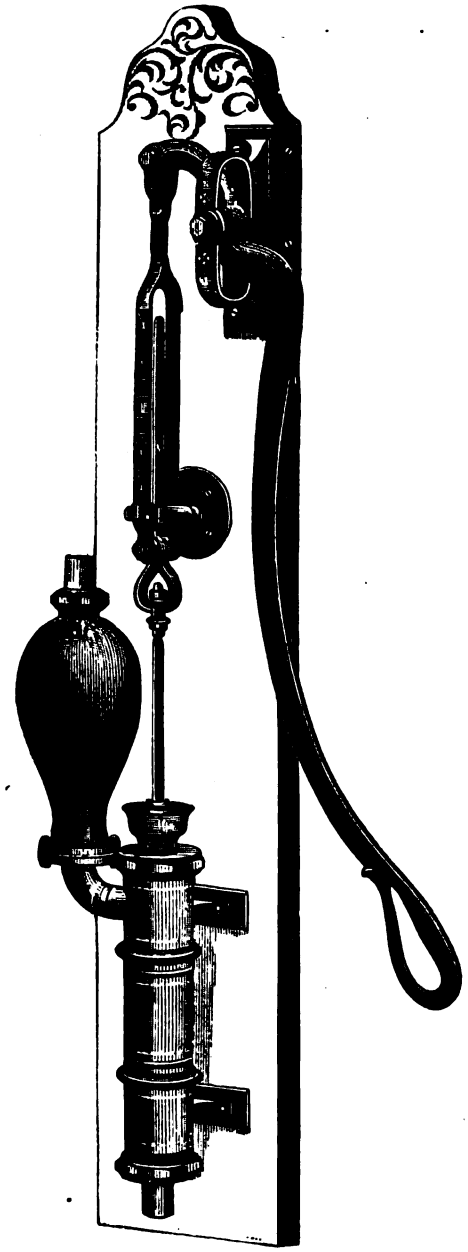


WITH CONNECTING ROD AND GUIDE.

We sell three sizes, right and left handed, fitted for attaching lead or iron pipes, without extra fittings, as follows, viz.:

No. 1, 2 inches calibre, suitable for pipes 1 and 1¼ inch calibre.
" 2, 2½ " " " " " 1¼ " "
" 3, 3 " " " " " 1¼ & 1½ " "

No. 136. **Fig. 468.**



WITH CONNECTING ROD, GUIDE AND AIR-CHAMBER.

We sell three sizes, right and left handed, fitted for lead or iron pipes, without extra fittings, as follows, viz.:

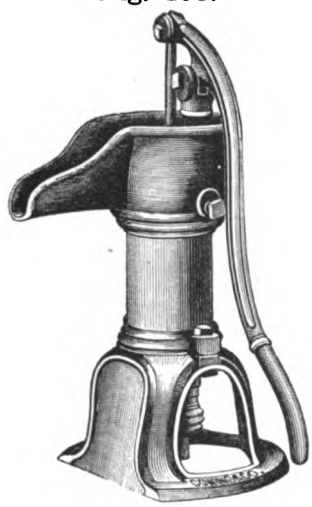
No. 1, 2 inches calibre, suitable for pipes 1 and 1¼ inch calibre.
" 2, 2½ " " " " " 1¼ " "
" 3, 3 " " " " " 1¼ & 1½ " "

Digitized by Google

PATENT PITCHER SPOUT PUMP,

FOR THE AMERICAN DRIVEN WELL.

Fig. 463.

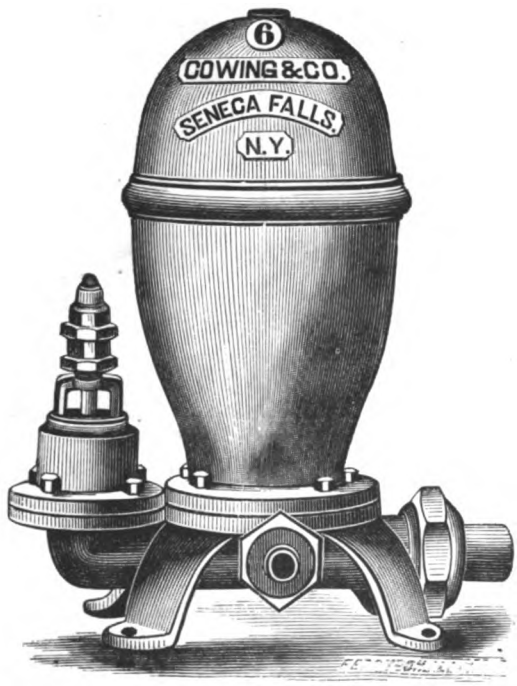


No. 1, 3 inches Calibre, suitable for Pipe 1¼ inches Calibre.
" 2, 3½ " " " 1½ "
" 3, 4 " " " 1½ "
" 4, 4½ " " " 1¾ "

IMPROVED HYDRAULIC RAM,

FOR SUPPLYING DWELLINGS, ETC., WITH RUNNING WATER.

Fig. 465.



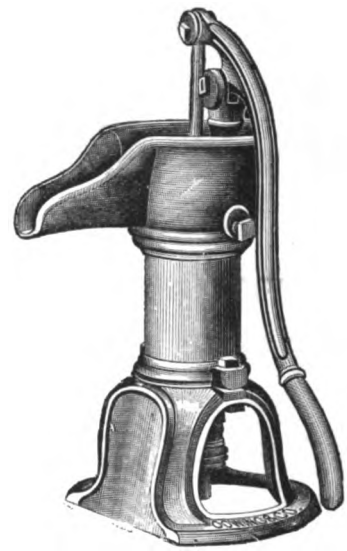
We make six sizes, fitted for attaching Lead or Wrought Iron Pipes, as follows:

Size of Ram.	Calibre of Drive Pipe.	Calibre of Discharge Pipe.	Length of Drive Pipe.	Length of Discharge Pipe.
2	¾ inch.	¾ inch.	40 to 50 feet.	To where desired.
3	1 "	⅞ "	40 to 50 "	
4	1¼ "	1 "	40 to 50 "	
5	2 "	1¼ "	40 to 50 "	
6	2½ "	1 "	40 to 60 "	
7	4 "	2 "	50 to 80 "	

PATENT SAND PUMP,

FOR CLEARING NEW WELLS.

Fig. 464.



Designed for the use of professional well drivers in clearing new wells.
4½ inches Calibre, suitable for Pipe 1¼ inches Calibre.

BOLT FASTENED, PATENT PITCHER, SPOUT PUMP.

Fig. 466.

No. 1, 2½ inch bore, suitable for ¾ or 1 inch Pipes.
" 2, 2 " " 1 or 1¼ "
" 3, 3¼ " " 1¼ or 1½ "
" 4, 4 " " 1½ or 1¾ "

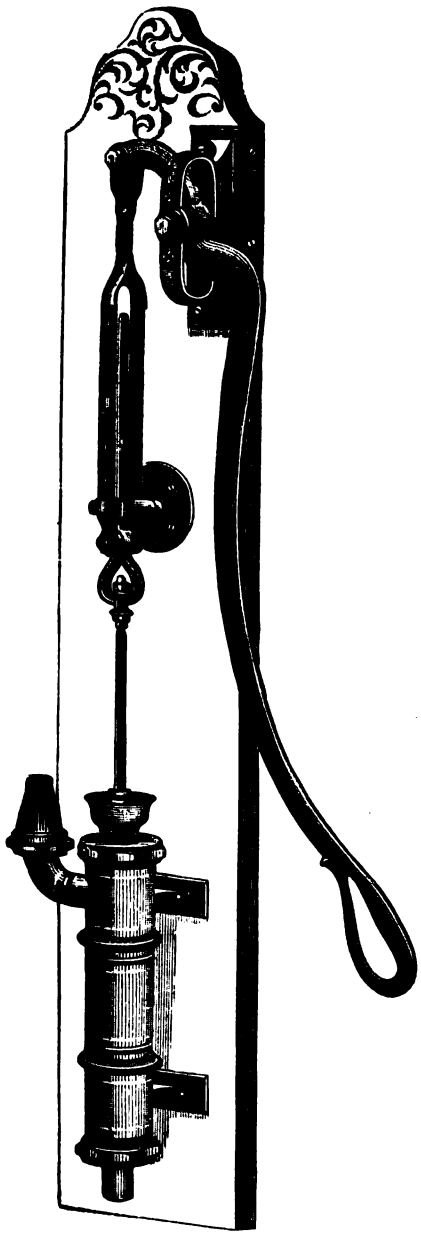
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

IRON FORCE PUMPS.

MOUNTED ON PLANK.

No. 135. **Fig. 467.**

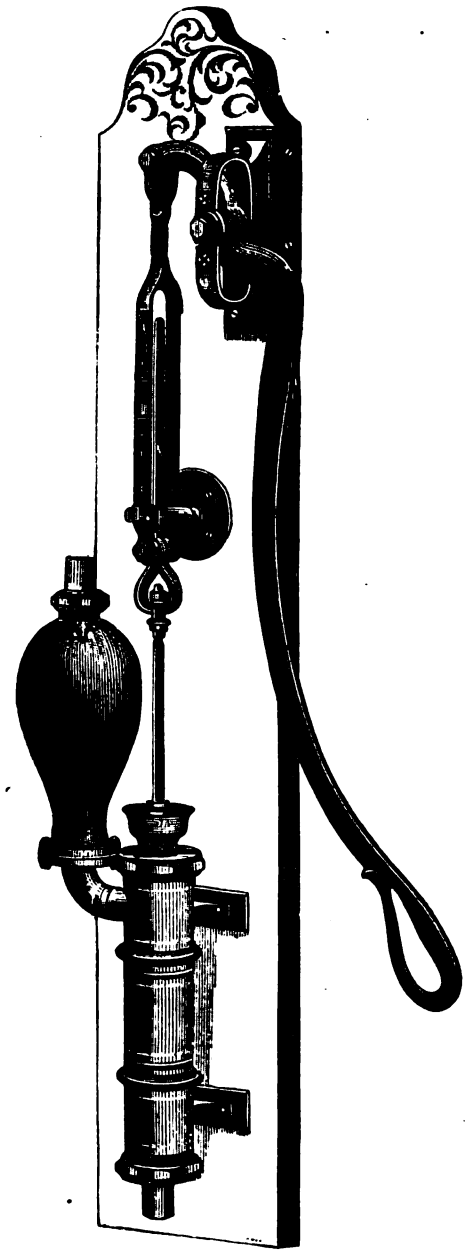


WITH CONNECTING ROD AND GUIDE.

We sell three sizes, right and left handed, fitted for attaching lead or iron pipes, without extra fittings, as follows, viz.:

No. 1, 2 inches calibre, suitable for pipes 1 and 1¼ inch calibre.
" 2, 2½ " " " " " 1¼ " "
" 3, 3 " " " " " 1¼ & 1½ " "

No. 136. **Fig. 468.**



WITH CONNECTING ROD, GUIDE AND AIR-CHAMBER.

We sell three sizes, right and left handed, fitted for lead or iron pipes, without extra fittings, as follows, viz.:

No. 1, 2 inches calibre, suitable for pipes 1 and 1¼ inch calibre.
" 2, 2½ " " " " " 1¼ " "
" 3, 3 " " " " " 1¼ & 1½ " "

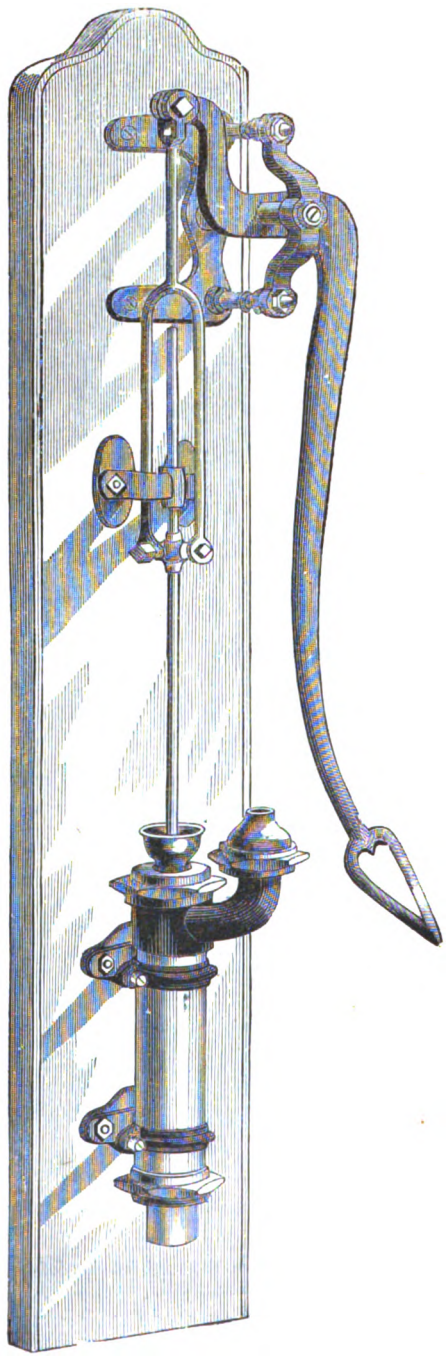
Digitized by Google

SUCTION AND FORCE PUMPS.

BRASS PATENT SWIVEL CYLINDER.

MOUNTED ON PLANK.

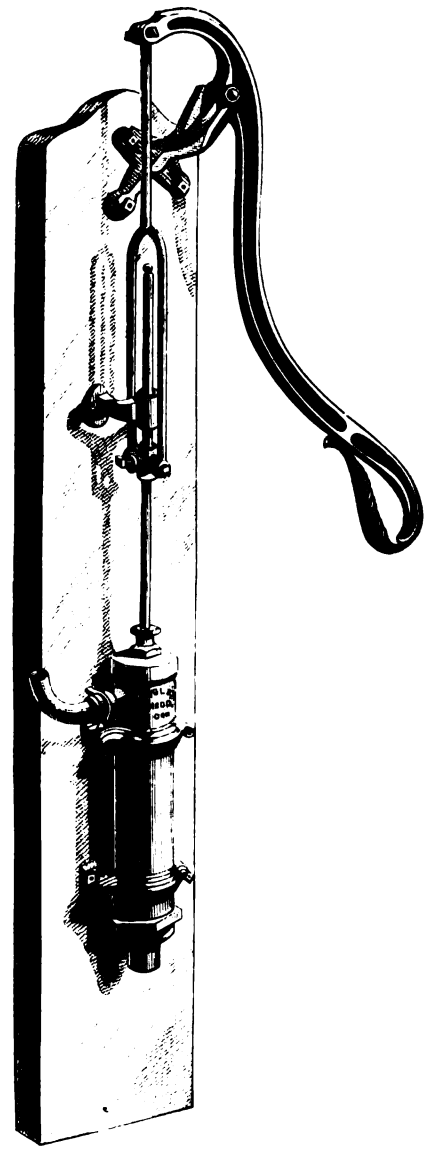
Fig. 469.



BRASS, EXTRA FINISHED, IMPROVED.

MOUNTED ON PLANK.

Fig. 470.

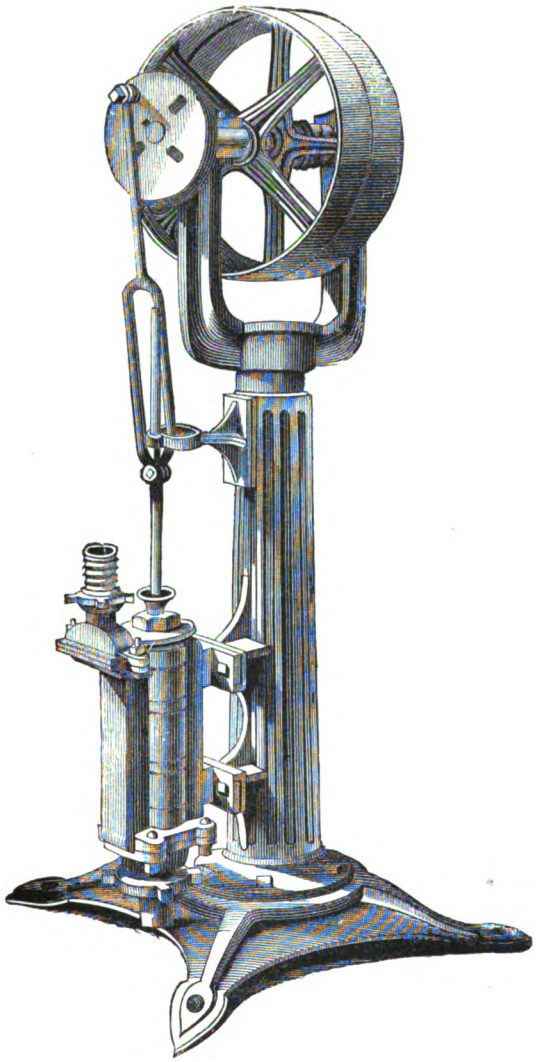


Digitized by Google

DOUBLE-ACTING SUCTION AND FORCE PUMPS.

ONE A.
Mounted on Iron Stand, with Pulleys for power.

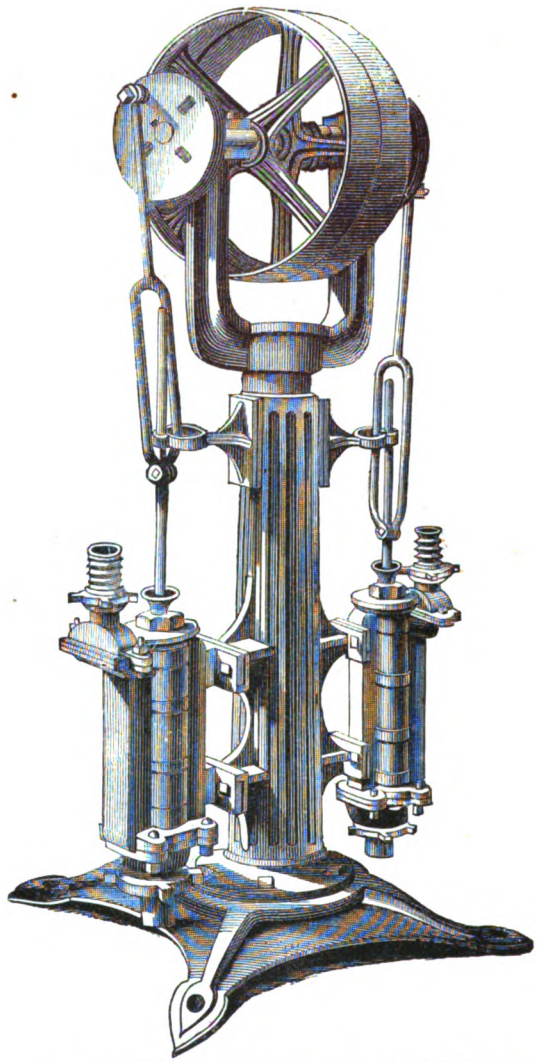
Fig. 471.



No. 1, suitable for		1	inch pipe, raises	16	gallons per min.		
No. 2,	"	1 or 1¼	"	"	24	"	"
No. 3,	"	1¼	"	"	30	"	"
No. 4,	"	1⅝	"	"	44	"	"
No. 5,	"	1¾	"	"	52	"	"
No. 6,	"	2	"	"	60	"	"
No. 8,	"	2	"	"	80	"	"
No. 10,	"	2¼	"	"	100	"	"

TWO A.
Iron Stand and Pulleys for power, equal to 4 single-acting pumps.

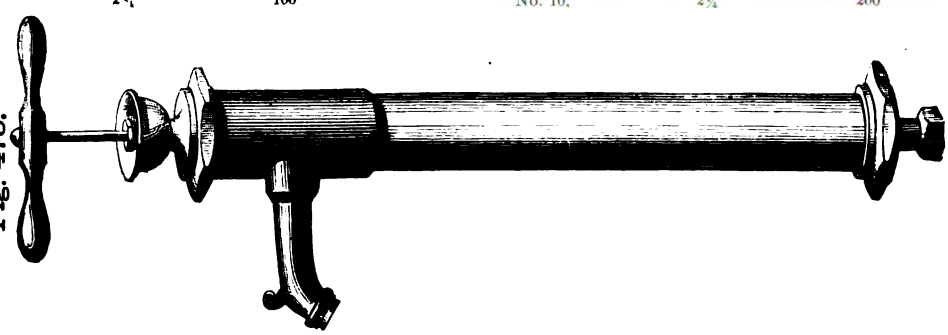
Fig. 472.



No. 1, suitable for		1	inch pipe, raises	32	gallons per min.		
No. 2,	"	1 or 1¼	"	"	48	"	"
No. 3,	"	1¼	"	"	60	"	"
No. 4,	"	1⅝	"	"	88	"	"
No. 5,	"	1¾	"	"	104	"	"
No. 6,	"	2	"	"	120	"	"
No. 8,	"	2	"	"	160	"	"
No. 10,	"	2¼	"	"	200	"	"

BRASS DRIP PUMP.

Fig. 473.



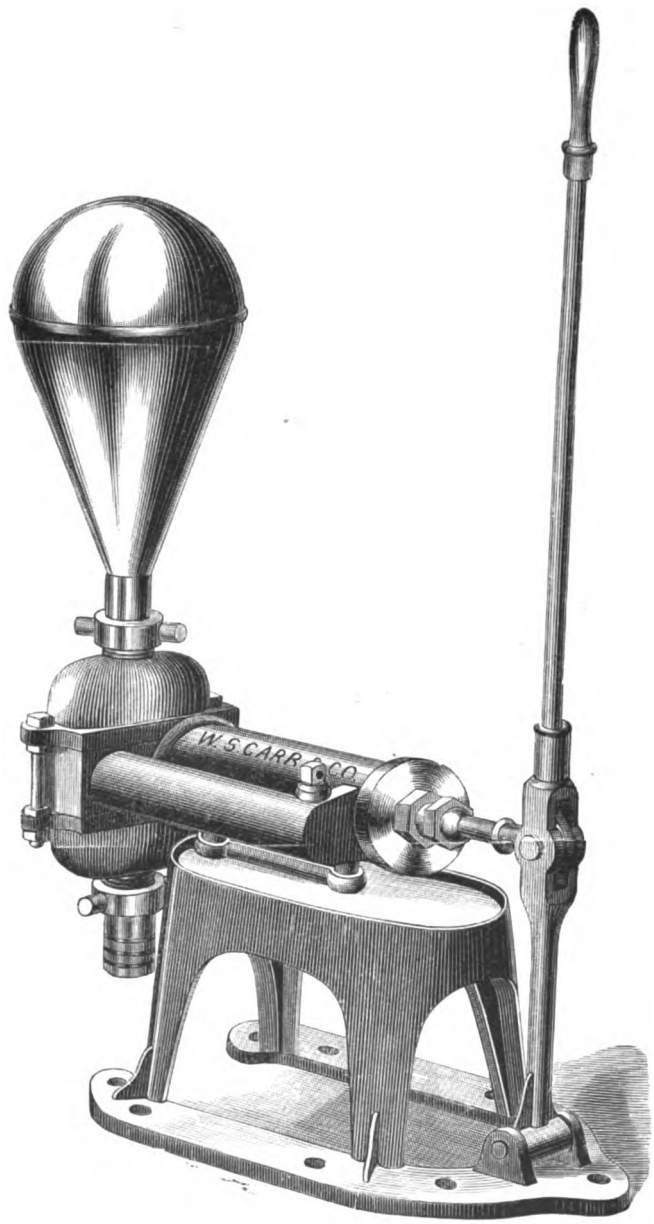
Designed for the use of Gas Companies and Plumbers. The coupling at bottom can be furnished for ¾ or 1 inch iron pipe.

Digitized by Google

DOUBLE-ACTING MONITOR HOUSE & SHIP PUMP,

ON FRAME FOR HAND OR STEAM POWER.

Fig. 474.



No. 5, 2 inch Cylinder.
No. 6, 2½ " "
No. 7, 3 inch Cylinder.
No. 8, 4 " "

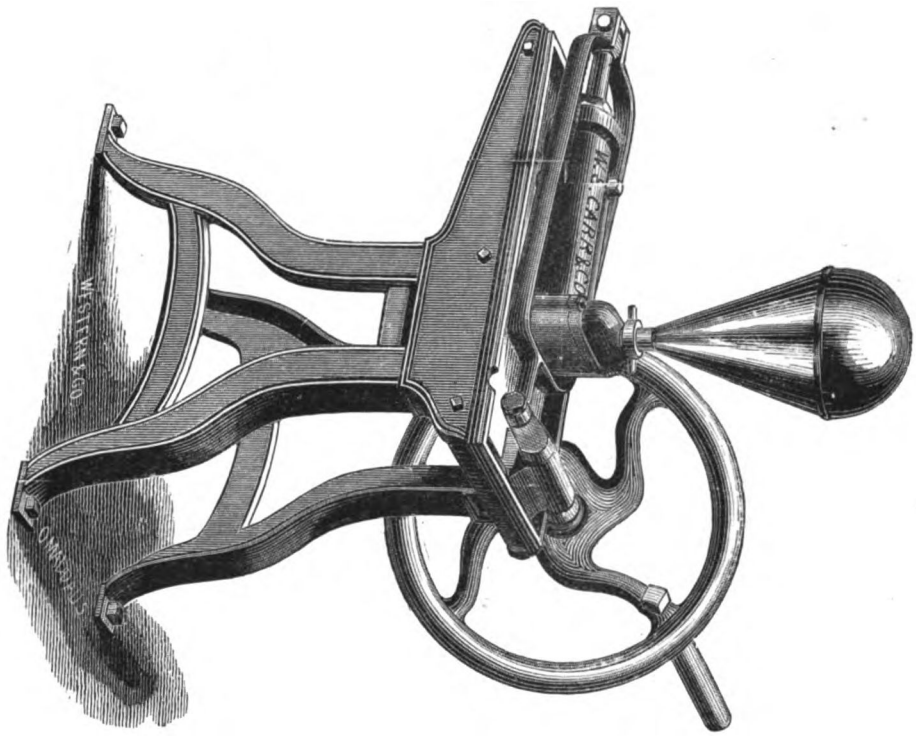
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

DOUBLE ACTING MONITOR HOUSE & SHIP PUMP,

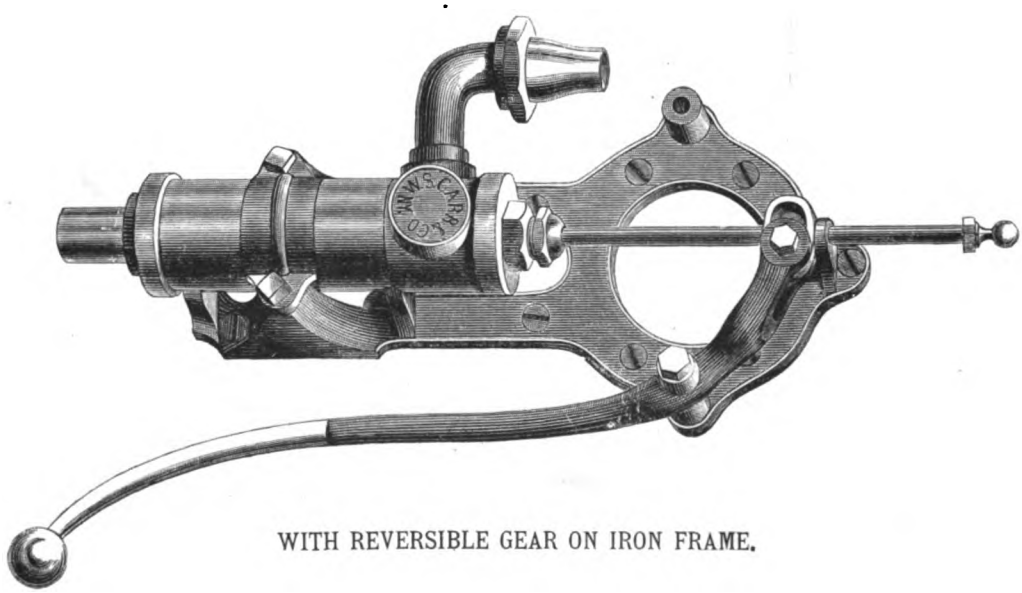
ON FRAME FOR HANDLE OR STEAM POWER.

Fig. 475.



SINGLE ACTION LIFT AND FORCE PUMP,

Fig. 476.



WITH REVERSIBLE GEAR ON IRON FRAME.

No. 10, 2 inch with Spout.
" 11, 2 " Rising Valve, short chamber.

No. 12, 2 inch Rising Valve, long chamber.
" 13, 2 " " " " "

Digitized by Google

CAST IRON WASH STANDS.

We have always on hand a large selection of frames in imitation of Sienna and Egyptian Marble (light and dark), with Bronzed or other mouldings. Aberdeen Granites, Oak and Black Walnut, Bird's Eye Maple, &c.

In the process of marbleizing, the frame is subjected to a high degree of heat, which gives it a bright, smooth and hard surface, so that it cannot be stained, and making it entirely impervious to the action of the water.

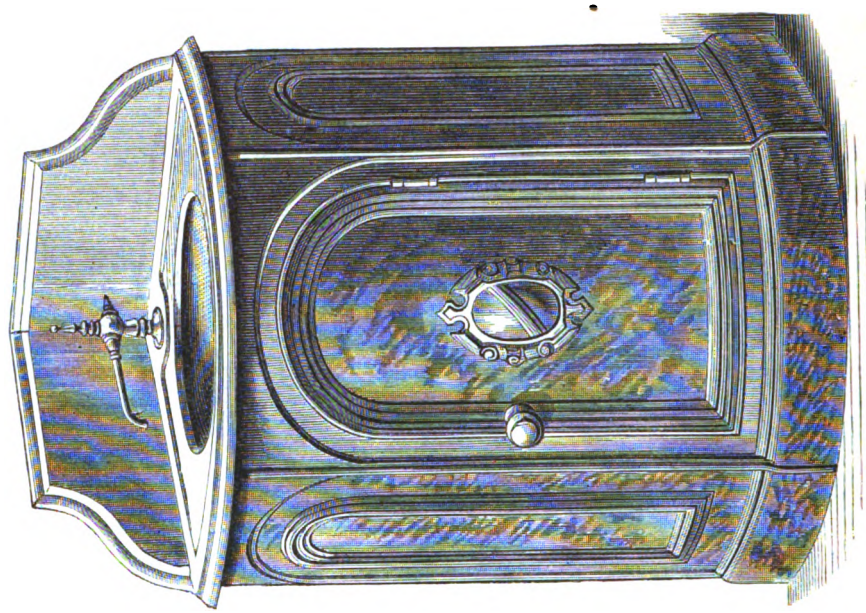
MOTT'S PATENT CORNER WASH STAND.

WITH OVERFLOW.

NEW PATTERN, 1867

Fig. 478.

No. 43



Length across front, 26 inches. Width on sides, 17½ inches. Height 28 inches.

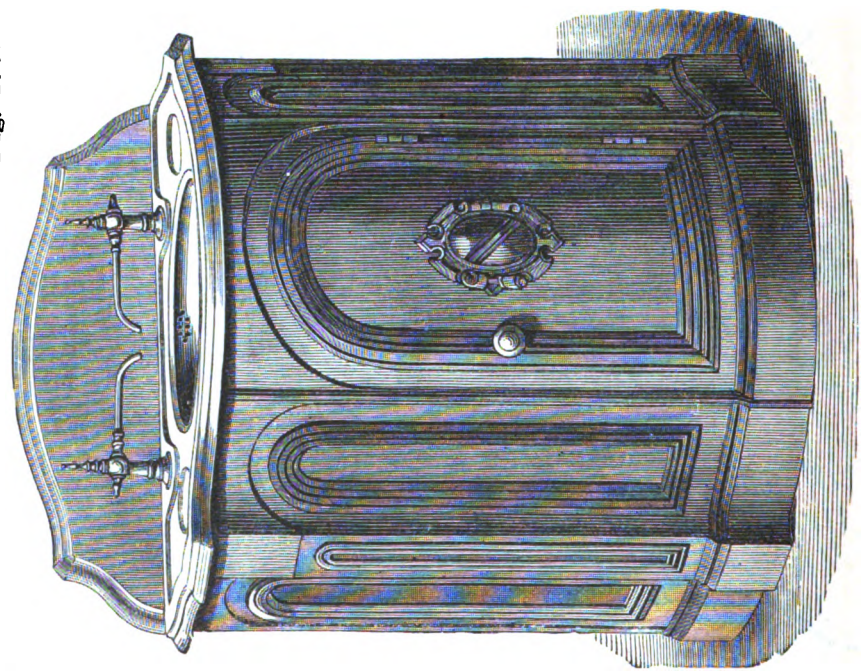
MOTT'S PATENT HALF CIRCLE WASH STAND.

WITH OVERFLOW.

NEW PATTERN, 1867.

Fig. 477.

No. 42.



Length on back, 30 inches. Depth through center, 16 inches. Height, 28 inches.

PLAIN, PAINTED, GALVANIZED, ENAMELED AND MARBLEIZED.

When ordering, please state if for Hot or Cold Water, or both, and if brass plug is wanted. The common basin plug can be used with these patterns.

A. CARR, MANUFACTURER, NEW YORK.

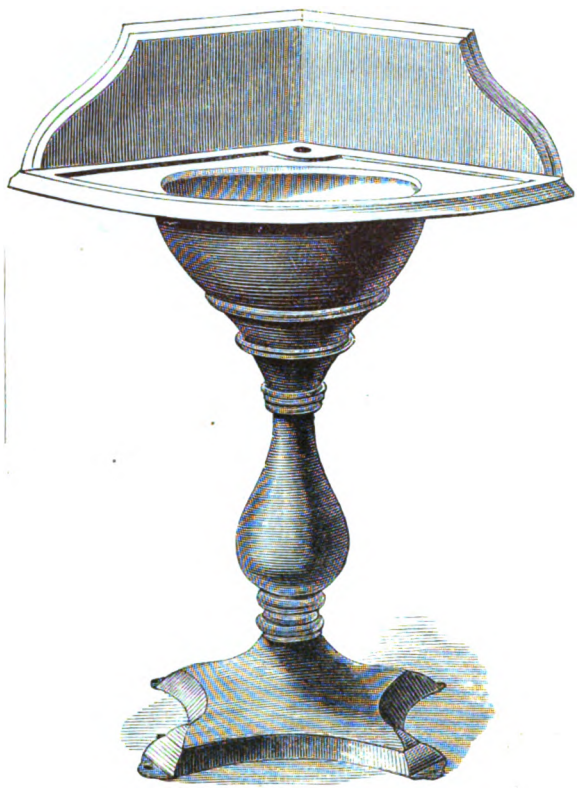
Digitized by Google

CAST IRON WASH STANDS.

MOTT'S CORNER WASH STAND.

ON STANDARD.

No. 45. **Fig. 479.**



Height to front of Slab, 26¼ inches. Height to top of Back, 33 inches. Length on side, 18 inches. Diameter of Bowl, 12 inches. When ordering, please state if for hot or cold water, or both, and if brass plug is wanted. The common basin plug can be used with this pattern.

MOTT'S HALF-CIRCLE WASH STAND.

ON STANDARD.

WITH OVERFLOW.
(New Design.)

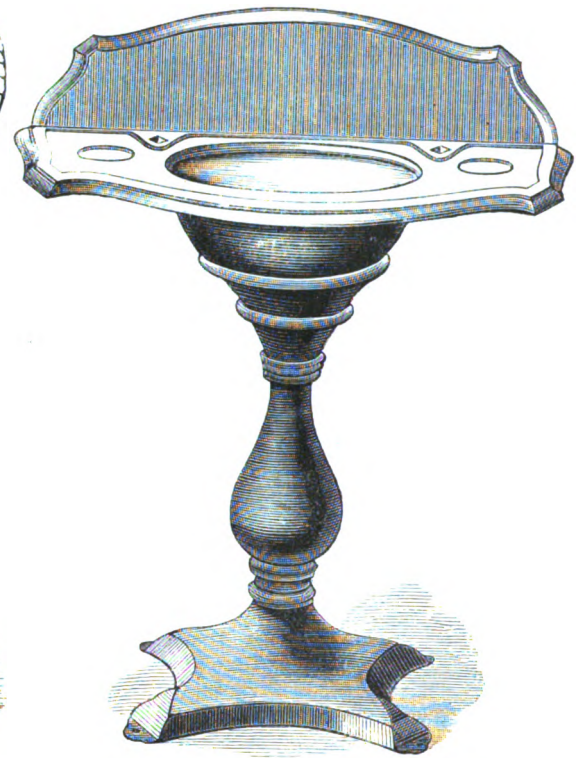
No. 44. **Fig. 480.**

Height to front of Slab, 29 inches. Height to top of Back, 32½ inches. Length of Back, 22 inches. Width of Bowl, 12 inches.

MOTT'S HALF-CIRCLE WASH STAND.

ON STANDARD.

No. 44. **Fig. 481.**



Height to front of Slab, 26½ inches. Height to top of Back, 34 inches. Length of Back, 30 inches. Diameter of Bowl, 12 inches.

PLAIN, PAINTED, GALVANIZED, OR ENAMELED SLAB AND BOWL.

Digitized by Google

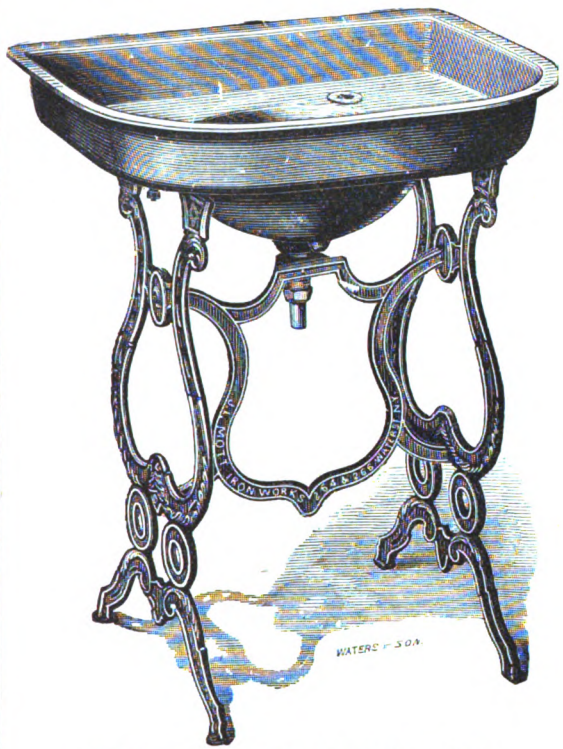
CAST IRON WASH STANDS.

MOTT'S WASH STAND.

WITH OVERFLOW

ON FRAME.

No. 47. Fig. 482.



This pattern has an overflow attached to the basin.

Plain, Painted, Galvanized, or Enameled Slab and Bowl.

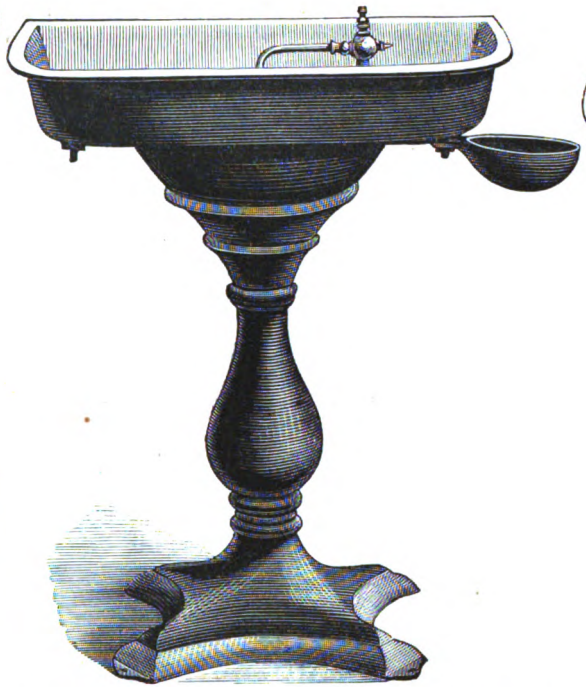
Height, 31¼ inches. Length on Back, 24¼ inches. Width, 19¼ inches. Diameter of Bowl, 13 inches.

MOTT'S WASH STAND.

ON STANDARD

WITH SOAP CUP.

No. 46. Fig. 483.



Diameter of Bowl, 13 inches. 24 inches on the Back. 28½ inches high. 19 inches on Side.

This is a new and beautiful article. It is made in such a way as to combine Bowl, Stand, &c. The waste water in passing out runs through the standard. There is also an enameled soap cup, which swings in and out, as shown by the cut.

MOTT'S CORNER WASH STAND.

ON STANDARD.

WITH OVERFLOW.

(New Design.)

No. 45½. Fig. 484.

Height to front of Slab, 29 inches. Height to top of Back, 32½ inches. Length of Side, 16 inches. Width of Bowl, 12 inches.

Digitized by Google

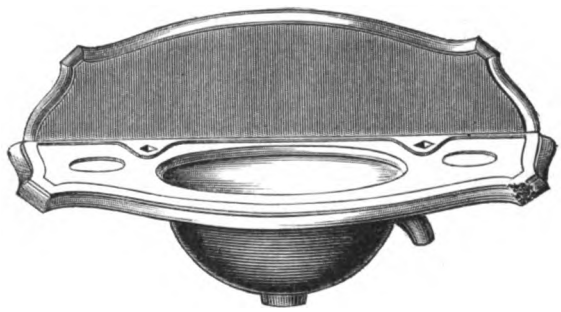
DOUBLE WASH STAND.

No. 48. **Fig. 485.**

Height, 31¼ inches. Length on back, 46 inches. Width, 19¼ inches. Diameter of Bowl, 13 inches.

HALF-CIRCLE SLAB AND BOWL.

No. 50. **Fig. 486.**

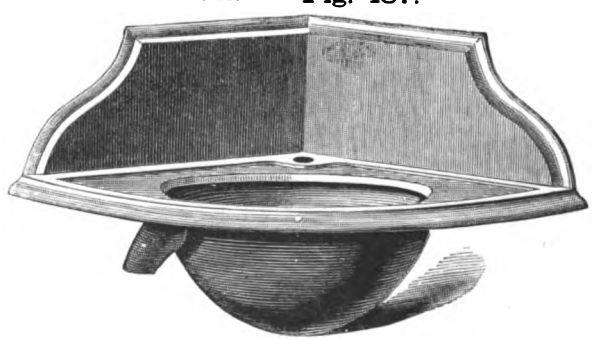


With overflow, same as in cut on page 159; detached from Iron Frame. In ordering please state if for hot or cold water, or both, and whether brass plug and stopper are wanted. Plain, Painted, Galvanized and Enameled.

CORNER SLAB AND BOWL.

FOR WASH STAND, WITH OVERFLOW.

No. 51. **Fig. 487.**



Same as in cut on page 159, detached from Iron Frame. Where wood casing is required, this Slab and Bowl is used in preference to marble, being very easily set up, and at about half the cost. In ordering, please state if for hot or cold water, or both, and whether brass plug and stopper are wanted. Plain, Painted, Galvanized and Enameled.

Digitized by Google

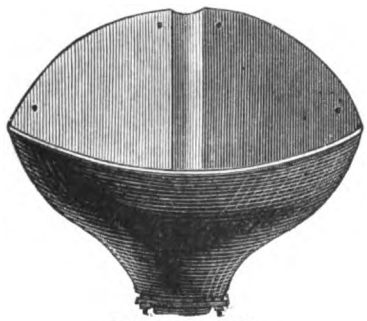
URINALS.

PLAIN, PAINTED AND ENAMELED.

CORNER.

With Opening behind for Lead Pipe.

No. 67. **Fig. 488.**



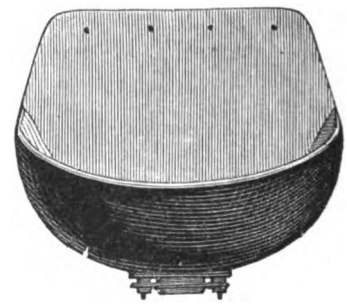
12 inches on Side.

HALF CIRCLE.

No. 68. **Fig. 489.**

No. 1.—Length on back, 12 inches.

No. 68. **Fig. 490.**



No. 2.—Length on back, 15 inches.

CORNER URINALS. ENGLISH PATTERN.

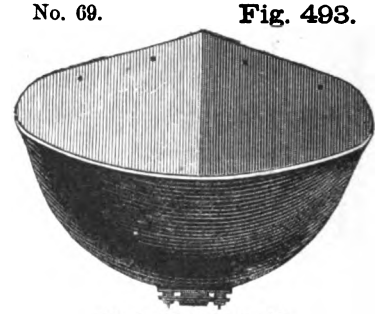
No. 69. **Fig. 491.**

No. 1.—7 inch on side.

No. 69. **Fig. 492.**

No. 2.—9 inch on side.

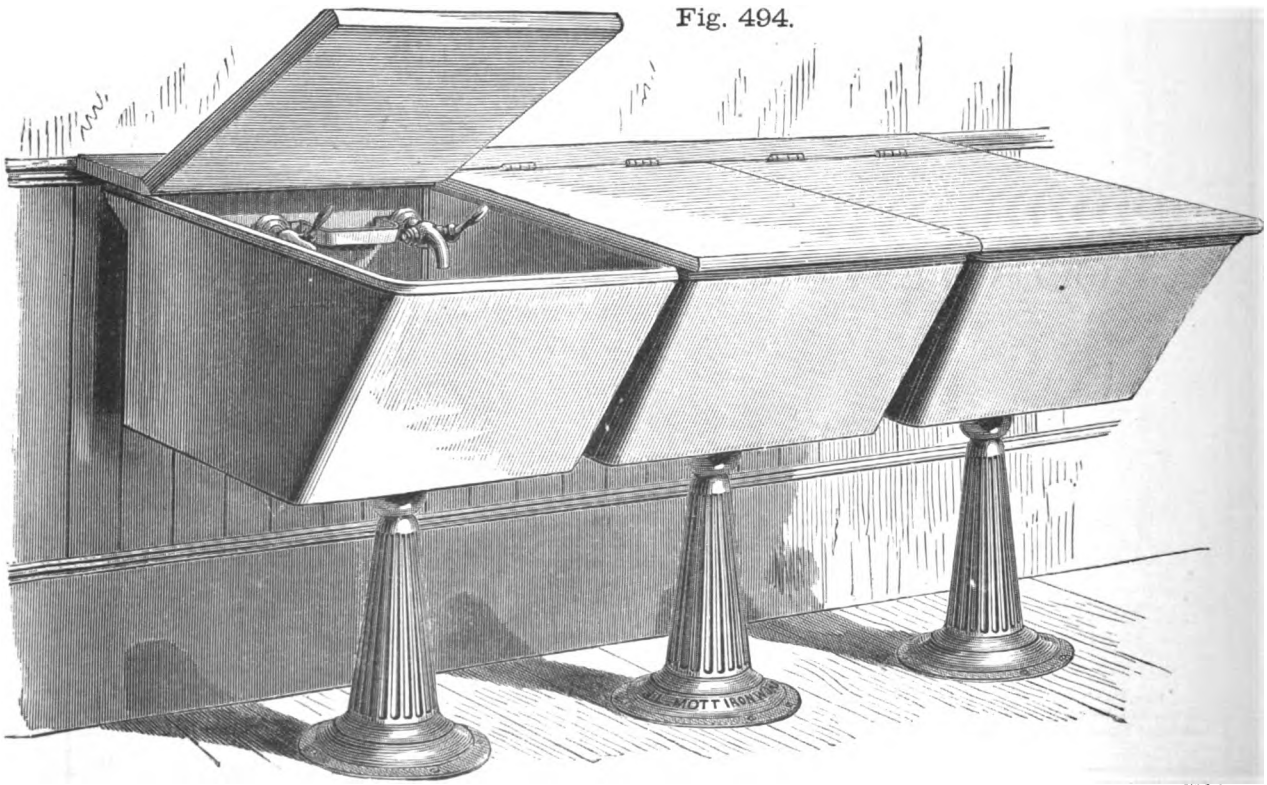
No. 69. **Fig. 493.**



No. 3.—12 inch on side.

MOTT'S NEW PATTERN IRON WASH TUBS.

Fig. 494.



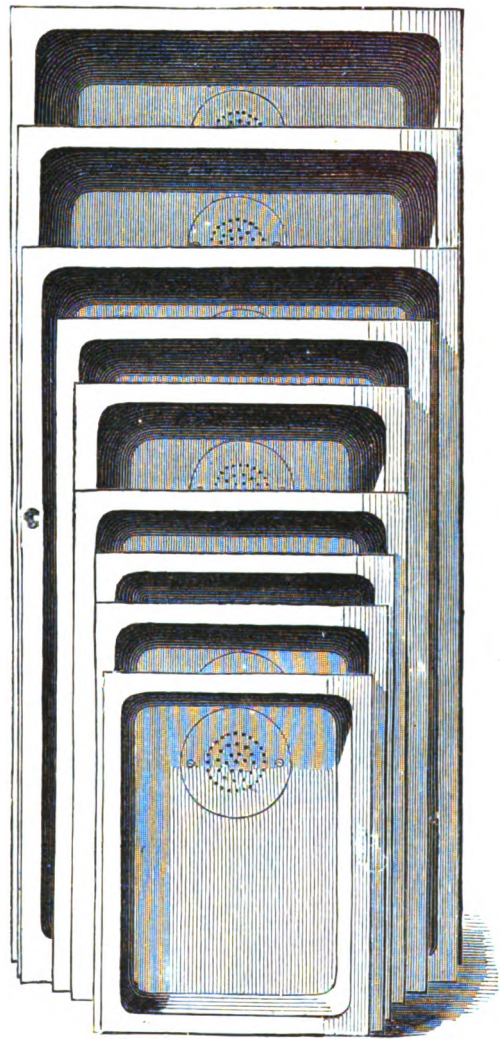
GALVANIZED OR ENAMELED.—Height, including Standard, 32 inches; Length of Single Tub, 24 inches; Width at Bottom, 13 inches; Width on Top, including Flange, 24¼ inches; Width on Top, not including Flange, 21 inches; Depth, 14 inches.

Digitized by Google

SQUARE SINKS.

PLAIN, ENAMELED AND GALVANIZED.

Fig. 495.



SIZES OF SQUARE SINKS.

16½	x	12½	4½	inches deep.	28	x	17	6	inches deep.	50	x	26	6½	inches deep.
18	x	12	6	" "	28	x	20	6	" "	76	x	22	7	" "
20	x	14	4½	" "	30	x	16	6	" "	30	x	24	8	" "
22	x	14	5	" "	30	x	18	6	" "	62	x	22	8	" "
23	x	15	5	" "	30	x	20	6	" "	56	x	32	9	" "
24½	x	16	5	" "	32½	x	18	6	" "	78	x	28	10	" "
25½	x	15½	5	" "	32½	x	21	6	" "	20	x	14	12	" "
20	x	12½	6	" "	36	x	18	6	" "	24	x	20	12	" "
20	x	14	6	" "	36	x	21½	6	" "	36	x	21	12	" "
24½	x	16	6	" "	38	x	20	6	" "	23	x	15	15	" "
24	x	18	6	" "	42	x	22	6	" "	41	x	16	16	" "
25½	x	17	5	" "	48	x	20	6	" "	48	x	20	17	" "
27	x	15	5	" "	48	x	23	6	" "	94	x	24	10	" "
24	x	20	6	" "	50	x	24	6½	" "					

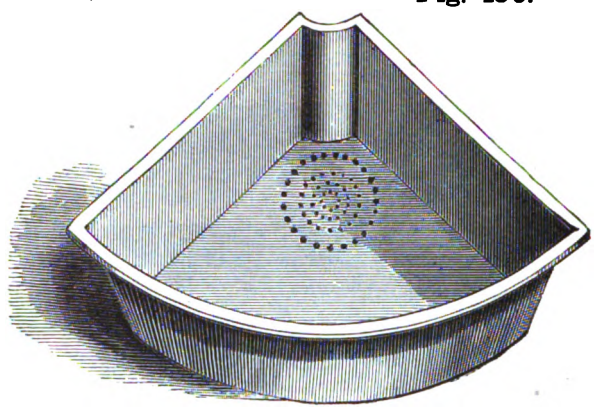
Digitized by Google

SINKS.

PLAIN, ENAMELED AND GALVANIZED.

CORNER.

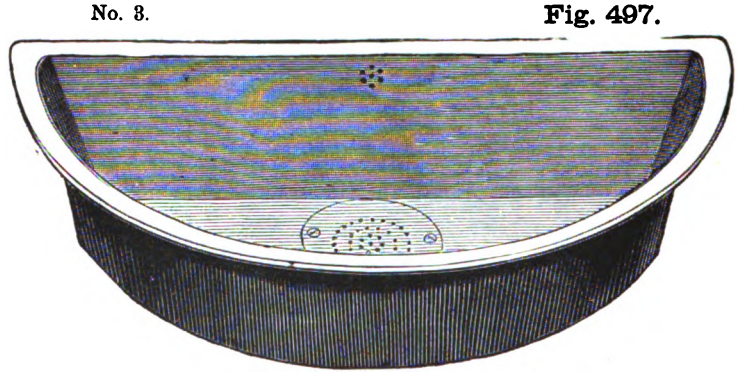
No. 2. **Fig. 496.**



No. 1. Side, 17 inches. Front, 25 inches. Depth, 6 inches.
" 2. " 20 " " 29 " " 6 "
No. 3. Side, 22 inches. Front, 31 inches. Depth, 6¼ inches.
" 4. " 18½ " " 25 " " 12 "

HALF CIRCLE.

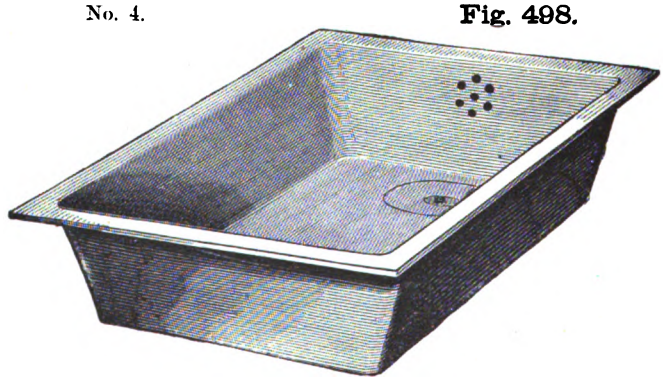
No. 3. **Fig. 497.**



No. 1. Back, 24 inches. Width, 14 inches. Depth, 6 inches.
" 2. " 27 " " 11 " " 6 "
No. 2. Back, 28 inches. Width, 16 inches. Depth, 8 inches.
" 4. " 31½ " " 17 " " 6 "

PATENT OVERFLOW SINK.

No. 4. **Fig. 498.**



☞ MADE SAME SIZES AS PLAIN SINKS ON PAGE 163.

They are particularly adapted to Tenement Houses, where Sinks are apt to overflow through neglect of persons using them.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

SINKS WITH LEGS.

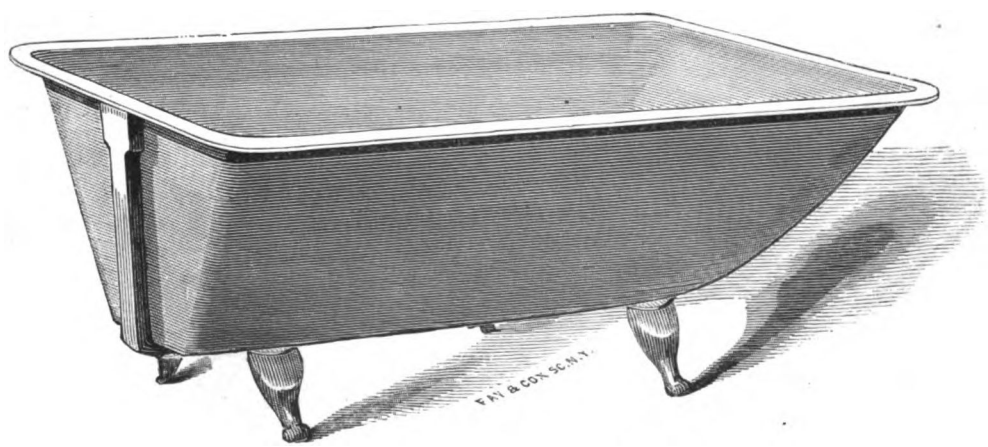
No. 8. **Fig. 499.**

By placing a slip of board on the wall, and bolting the Sink to it, two legs for the front is all that is required. They make a neat finish, and save the expense of boxing under part of the Sink.

CAST IRON BATH TUB.

PATENT OVERFLOW.

No. 23. **Fig. 500.**



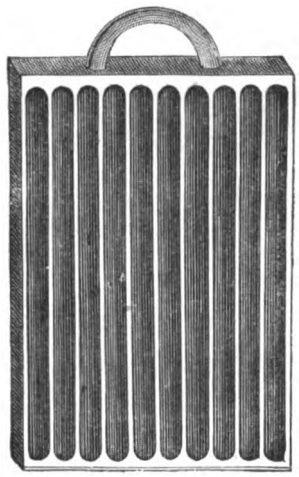
These Baths are made expressly for Asylums, and, by casting bosses on the end of the tub, water can be let in and out at the bottom of the Bath. References can be given to institutions having them in use.

No. 1,	Length, 66 inches,	Width, 25¼ inches,	Depth, 18¾ inches, with overflow.
" 2,	" 72 "	" 25¼ "	" 18¾ " " "

Digitized by Google

SOLDER MOULDS.

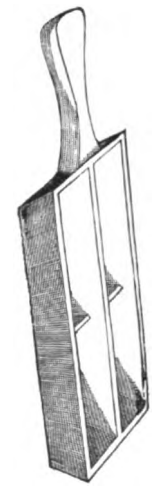
No. 26. **Fig. 501.**



Half Round Bar.

Square Bar.

No 27. **Fig. 502.**

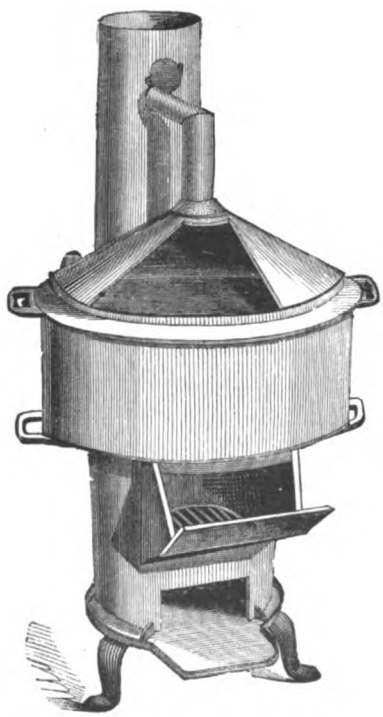


Two Bars. Four Bars.

PLUMBERS' FURNACE.

PATENT.

No. 25. **Fig. 503.**

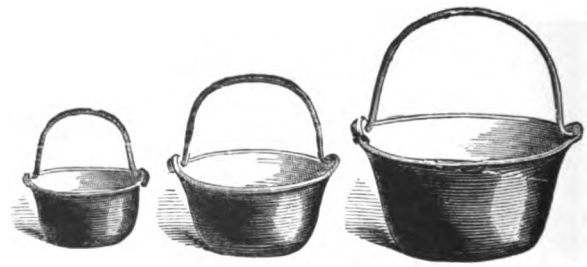


☞The above is expressly for melting metal.

Capacity of Kettle, 8 gallons.

SOLDER POTS.

No. 29. **Fig. 504.**



No. 1	Diameter on Top. 5 in.	No. 5	Diameter on Top, 9 in.
No. 2	" " 6 in.	No. 6	" " 10½ in.
No. 3	" " 6½ in.	No. 7	" " 13½ in.
No. 4	" " 8 in.		

CHARCOAL FURNACES.

No. 30. **Fig. 505.**

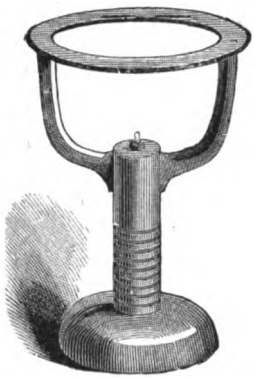
No. 2	Diameter on Top, 12 in.	No. 4	Diameter on Top, 14 in.
No. 3	" " 13 in.	No. 5	" " 15 in.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

LOCKWOOD'S BOILER STAND.

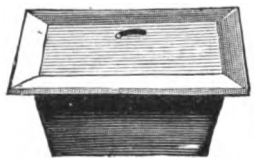
No. 31. **Fig. 506.**



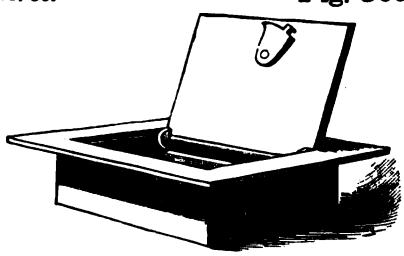
☞ This Stand can be raised or lowered at pleasure by cutting off the rings on Standard, as shown by the above cut. 12, 14, 16, 18, 20 inch Ring.

STOP COCK AND STREET WASHER BOXES.

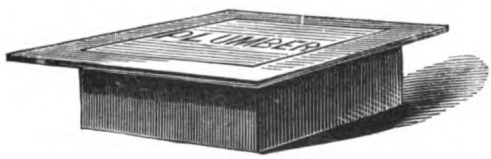
No. 34. **Fig. 508.**



No. 35. **Fig. 509.**



No. 35. **Fig. 510.**



Plumbers' address cast on Covers to order.

MOTT'S PATENT BOILER STAND.

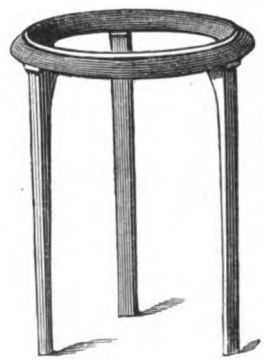
No. 32. **Fig. 507.**

This Boiler Stand is particularly adapted for shipping. The top part being bolted to Standard can be taken apart, and each nested separately.

☞ Same sizes as Lockwood's pattern, with 18, 20, 22, 24 and 30 inch Standard. Be particular when ordering to state height of Standard.

BOILER STAND, WITH CONCAVE RING.

No. 36. **Fig. 511.**



With Legs, 16, 18, 20, 22 and 24 inches Long.

12½ in. ring.	18 in. ring.
14 in. ring.	20 in. ring.
16 in. ring.	22 in. ring.

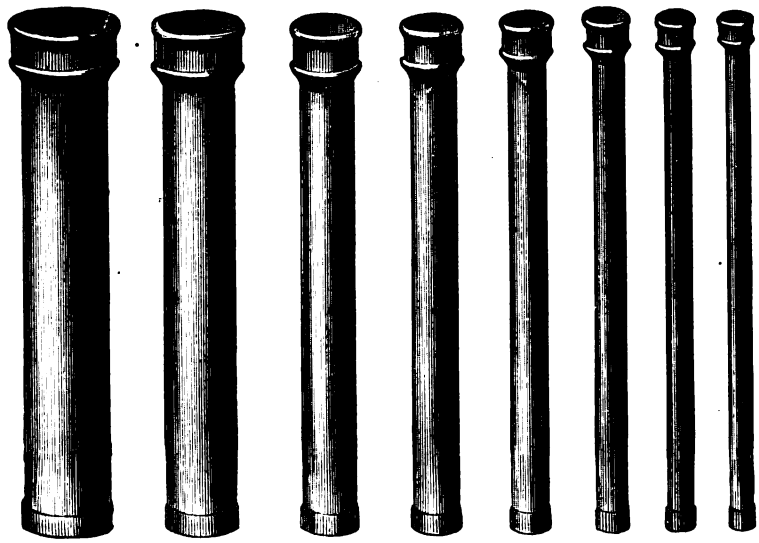
STREET WASHER ROD AND KEY.

No. 33. **Fig. 512.**

Digitized by Google

CAST IRON DRAIN, WATER AND SMOKE PIPES.

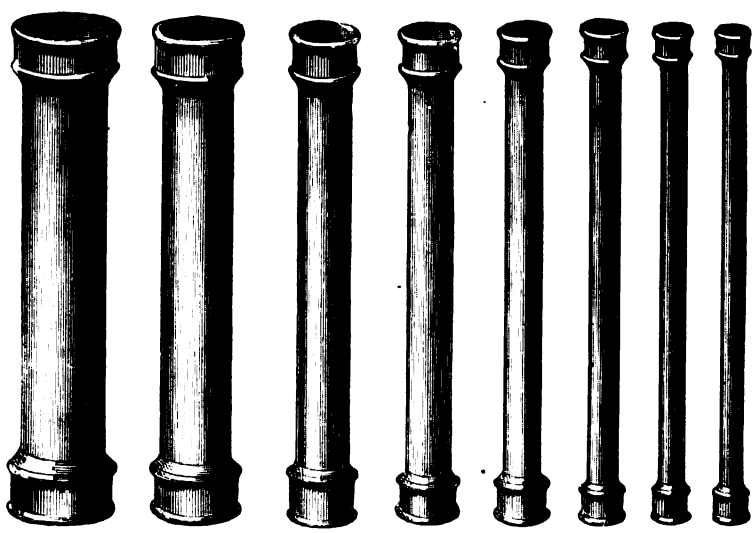
Fig. 513.



Sizes, 2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

DOUBLE HUB PIPE.

Fig. 514.



Sizes, 2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

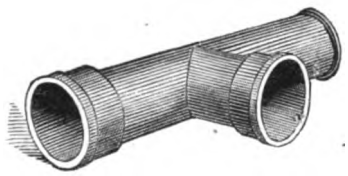
This pipe will be found very convenient, and a great saving where short pieces are required. When cut in two pieces, each piece can be used without the expense of either a sleeve or double hub.

Digitized by Google

CAST IRON FITTINGS FOR SOIL PIPE.

T BRANCH.

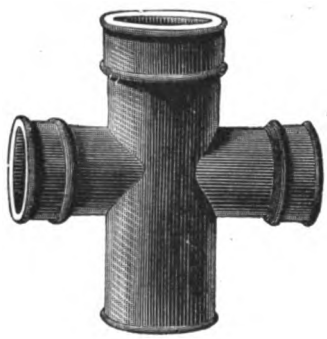
No. 72. **Fig. 515.**



3 x 2 inches.	6 x 5 inches.	8 x 7 inches.
3 x 3 "	6 x 4 "	8 x 6 "
3 x 2 "	6 x 3 "	8 x 5 "
4 x 4 "	6 x 2 "	8 x 4 "
4 x 3 "	7 x 7 "	8 x 3 "
4 x 2 "	7 x 6 "	8 x 2 "
5 x 5 "	7 x 5 "	10 x 2 &c."
5 x 4 "	7 x 4 "	12 x 12 "
5 x 3 "	7 x 3 "	12 x 5 "
5 x 2 "	8 x 8 "	12 x 6 "
6 x 6 "		

CROSSES.

No. 73. **Fig. 517.**



2 in. with 2 in. Branches	6 in. with 2 in. Branches.
3 " 3 "	7 " 7 "
3 " 2 "	7 " 6 "
4 " 4 "	7 " 5 "
4 " 3 "	7 " 4 "
4 " 2 "	7 " 3 "
5 " 5 "	7 " 2 "
5 " 4 "	8 " 8 "
5 " 3 "	8 " 7 "
5 " 2 "	8 " 6 "
6 " 6 "	8 " 5 "
6 " 5 "	8 " 4 "
6 " 4 "	8 " 3 "
6 " 3 "	8 " 2 "

QUARTER BENDS.

No. 76. **Fig. 519.**

2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

Y BRANCHES.

No. 74. **Fig. 516.**

Sizes same as Double Y Branch below.

☞ We make the above with all sizes of Outlets. We also make them 2, 3 and 4 way to order.

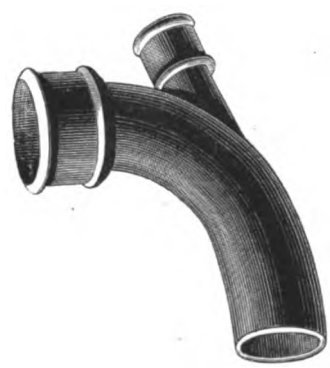
DOUBLE Y BRANCHES.

No. 75. **Fig. 518.**

2 x 2 inch.	5 x 4 inch.	6 x 2 inch.
3 x 3 "	5 x 3 "	8 x 8 "
3 x 2 "	5 x 2 "	8 x 6 "
4 x 4 "	6 x 6 "	8 x 5 "
4 x 3 "	6 x 5 "	8 x 4 "
4 x 2 "	6 x 4 "	8 x 3 "
5 x 5 "	6 x 3 "	8 x 2 "

QUARTER BENDS.

No. 77. **Fig. 520.**



4 inch, with connection for 2 inch Pipe.

Digitized by Google

CAST IRON FITTINGS FOR SOIL PIPE.

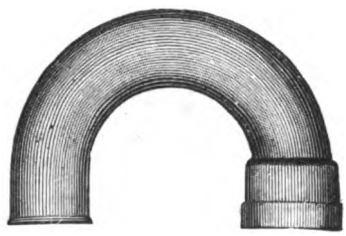
ONE-EIGHTH BENDS.

No. 78. **Fig. 521.**

Sizes, 2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

RETURN BENDS.

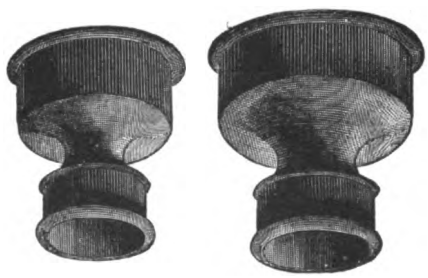
No. 80. **Fig. 523.**



Sizes, 2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

REDUCING PIECES.

No. 82. **Fig. 525.**



To reduce from	4 in. to 2 in.	To reduce from	8 in. to 3 in.
"	" 5 in. to 2 in.	"	" 8 in. to 4 in.
"	" 5 in. to 3 in.	"	" 8 in. to 5 in.
"	" 6 in. to 2 in.	"	" 8 in. to 6 in.
"	" 6 in. to 3 in.	"	" 10 in. to 6 in.
"	" 6 in. to 4 in.	"	" 10 in. to 7 in.
"	" 7 in. to 3 in.	"	" 10 in. to 8 in.
"	" 7 in. to 4 in.	"	" 12 in. to 10 in.
"	" 7 in. to 5 in.		

To reduce 1 inch, only use a DOUBLE HUB of the smaller size.

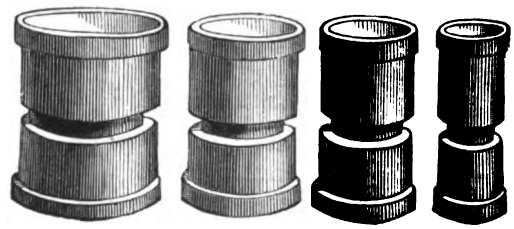
DOUBLE HUB BENDS.

No. 79. **Fig. 522**

Sizes, 2, 3, 4, 5, 6 inches.

DOUBLE HUBS.

No. 81. **Fig. 524.**



Sizes, 2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

STRAIGHT SLEEVE.

No. 83. **Fig. 526.**

Sizes, 2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

SINGLE HUB.

No. 85. **Fig. 527.**

Sizes, 2, 3, 4, 5, 6, 7, 8, 10, 12 inches.

THIMBLE.

TO CONNECT LEAD TRAPS TO IRON SOIL PIPE.

No. 84. **Fig. 528.**

Four Inch.

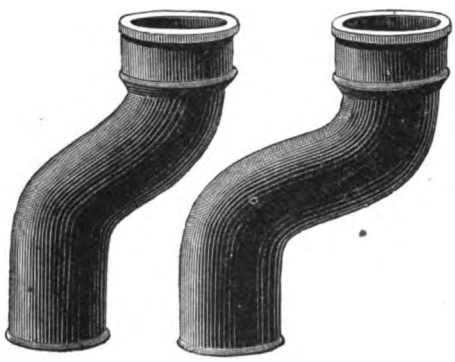
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

CAST IRON FITTINGS FOR SOIL PIPE.

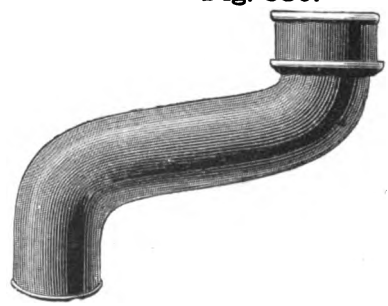
OFFSETS.

No. 86. **Fig. 529.**



2	in. to	Offset	4 in.
2	"	"	8 "
2	"	"	12 "
3	"	"	4 "
3	"	"	8 "
3	"	"	12 "
4	"	"	4 "
4	"	"	8 "
4	"	"	12 "
5	"	"	4 "
5	"	"	8 "
5	"	"	12 "
6	"	"	4 "
6	"	"	8 "
6	"	"	12 "

No. 86 **Fig. 530.**



PIPE RESTS.

For sustaining Lead and Iron Soil Pipe.

No. 87. **Fig. 531.**

Sizes, 2, 3, 4, 5, 6, 8, 10 inches.

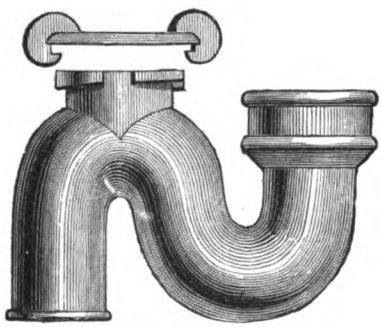
PIPE STOPPERS OR PLUGS.

No. 88. **Fig. 532.**

Sizes, 2, 3, 4, 5, 6 inches.

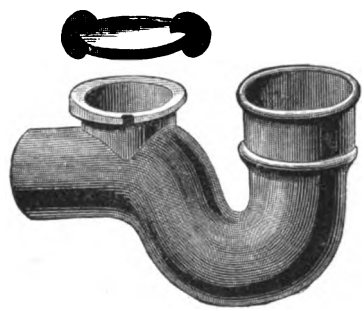
S TRAP.

No. 89. **Fig. 533.**



HALF S TRAP.

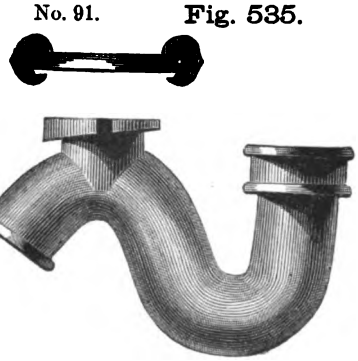
No. 90. **Fig. 534.**



Sizes, 2, 3, 4, 5, 6 inches. 4 inch made with connection for 2 inch pipe.

3-4 S TRAP.

No. 91. **Fig. 535.**



Sizes, 3, 4, 5 inches.
4 inch made with connection for 2 inch pipe.

RUNNING TRAP.

With opening for cleaning out.

No. 92. **Fig. 536.**

Sizes, 2, 3, 4, 6 inches.
4 inch made with connection for 2 inch pipe.

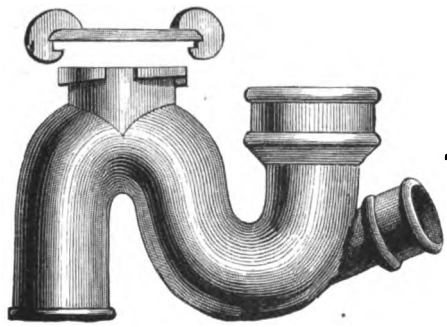
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

CAST IRON FITTINGS FOR SOIL PIPE.

S TRAP.

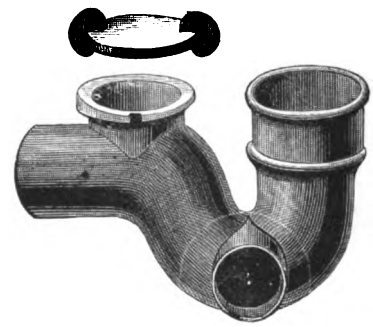
No. 93. **Fig. 537.**



With Outlet on Heel.
4 inch with connection for 2 inch pipe. Can also be had with Outlet on Side, same as Half S Trap No. 94.

HALF S TRAP.

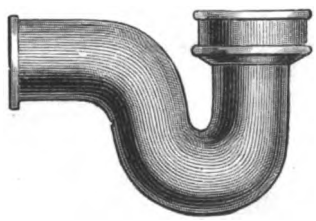
No. 94. **Fig. 538.**



With Outlet on Side.
4 inch, with connection for 3 inch pipe. Can also be had with Outlet on Heel, same as S Trap No 93.

HALF S TRAP.

No. 95. **Fig. 539.**



4 inch, without hand opening.
☞ Bosses cast on Traps to order.

S HOPPER TRAP.

No. 96. **Fig. 540.**

Size, 4 inches.

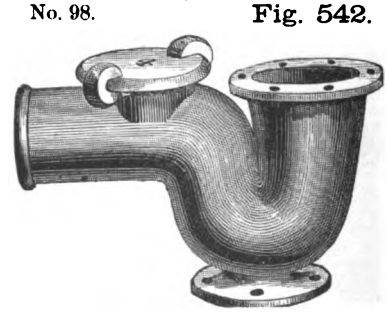
3-4 S HOPPER TRAP.

No. 97. **Fig. 541.**

Size, 4 inches. Flanged.

HALF S HOPPER TRAP.

No. 98. **Fig. 542.**



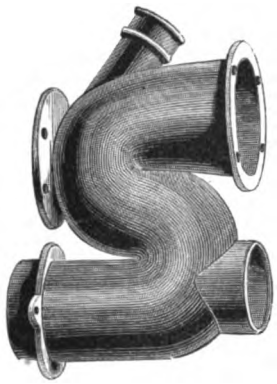
Size, 4 inches. Flanged.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

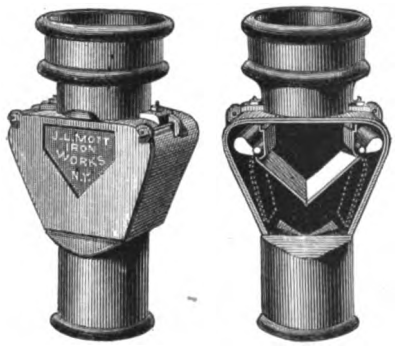
S HOPPER TRAP. STUBENBORD'S PATENT TRAP. S HOPPER TRAP.

No. 99. **Fig. 543.**

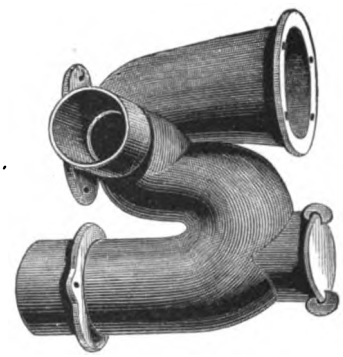


Flanged. With 2 inch Outlet on Heel.

Fig. 544.



No. 100. **Fig. 545.**



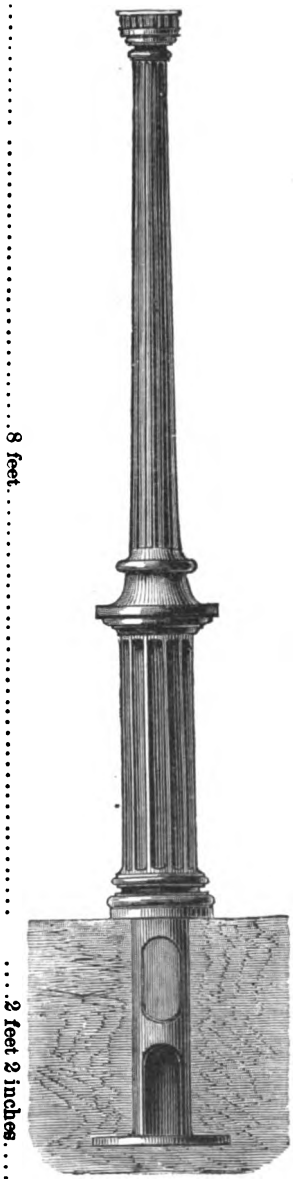
Flanged With 2 inch Outlet on Side.

LAMP POSTS.

No. 138. With Cap. **Fig. 546.**

8 feet.....

2 feet 2 inches....

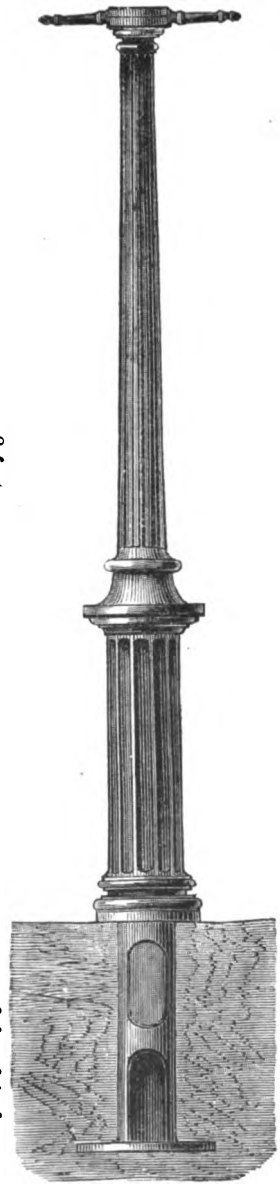


No. 137. With Cross Bar. **Fig. 547.**

8 feet.....

Supplied with or without Lanterns.

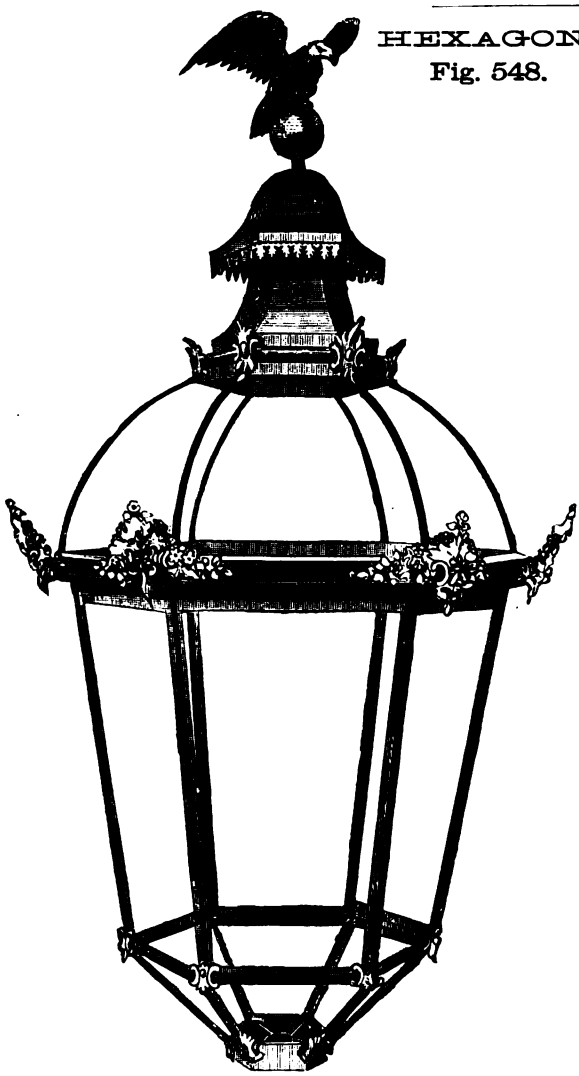
2 feet 2 inches....



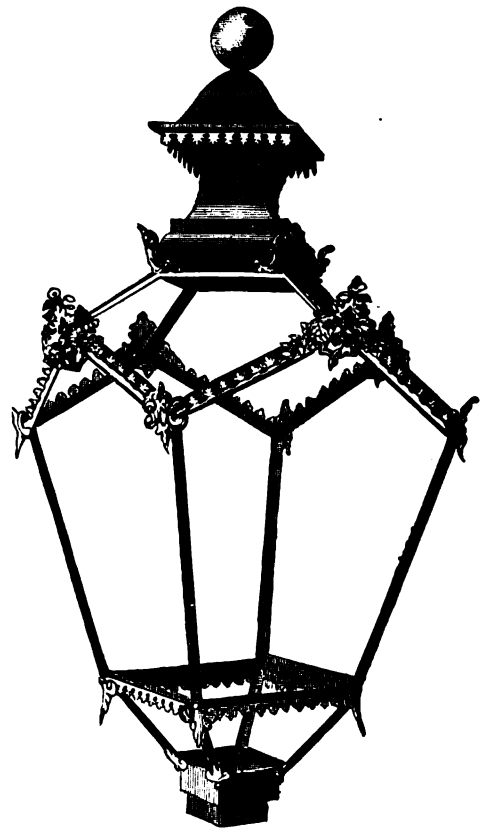
Digitized by Google

STREET AND FANCY LANTERNS.

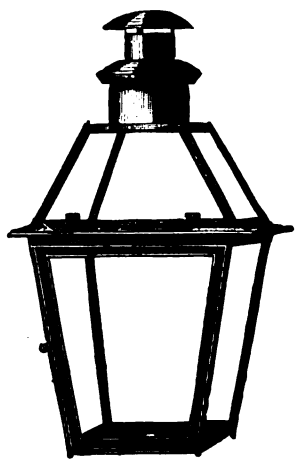
HEXAGON.
Fig. 548.



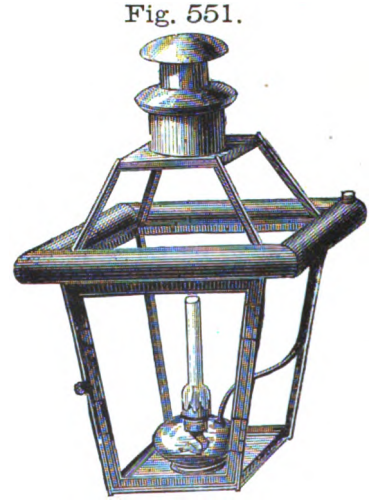
SQUARE LANTERN.
REVERSED TOP & BOTTOM.
Fig. 549.



FOR GAS.
Fig. 550.



FOR KEROSENE.
Fig. 551.



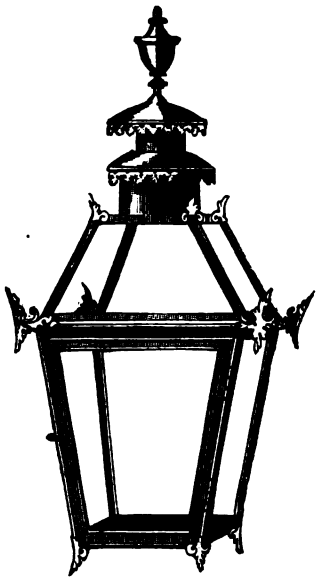
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STREET AND FANCY LANTERNS.

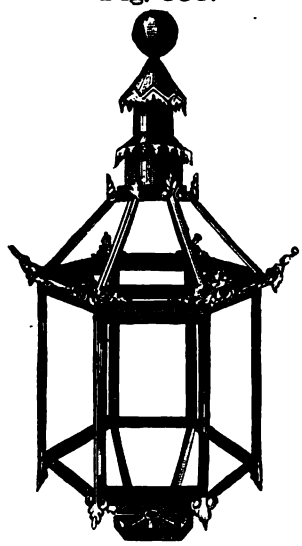
FANCY.

Fig. 552.



HEXAGON.

Fig. 553.



OCTAGON.

SMALL CORNERS.

Fig. 554.

OCTAGON.

SMALL CORNERS, TAPERS.

Fig. 555.

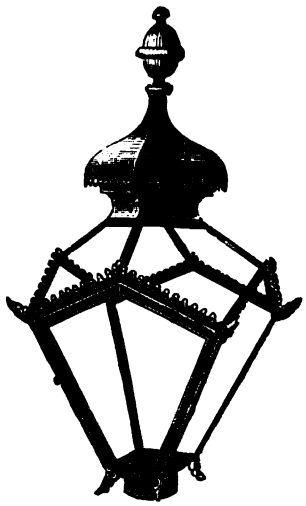
Digitized by Google

STREET AND FANCY LANTERNS

SQUARE LANTERN.

REVERSED TOP.

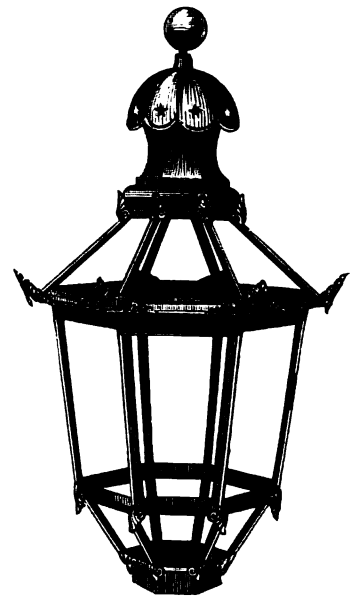
Fig. 556.



HEXAGON.

TAPER.

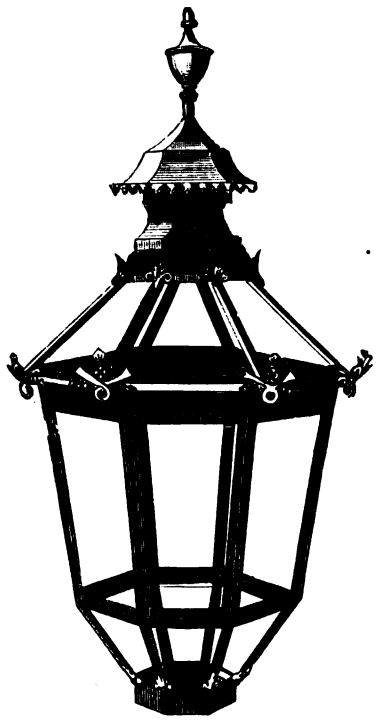
Fig. 557.



HEXAGON.

TAPER, FANCY HEAD.

Fig. 558



OCTAGON.

SQUARE TOP AND BOTTOM.

Fig. 559.

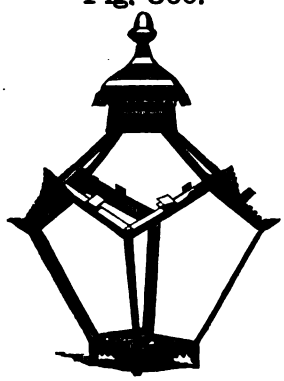
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STREET AND FANCY LANTERNS.

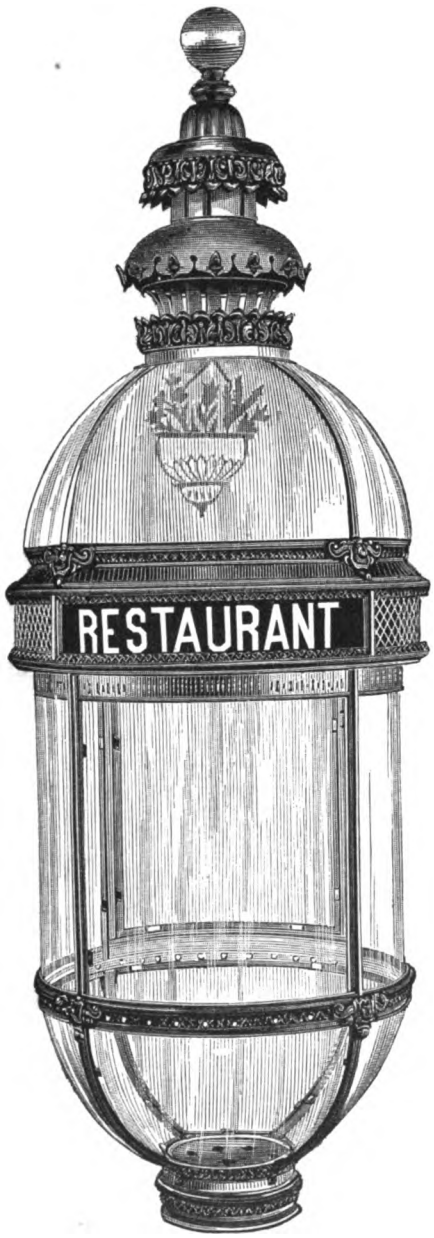
SQUARE—REVERSED TOP.

Fig. 560.



PRINCE ALBERT.

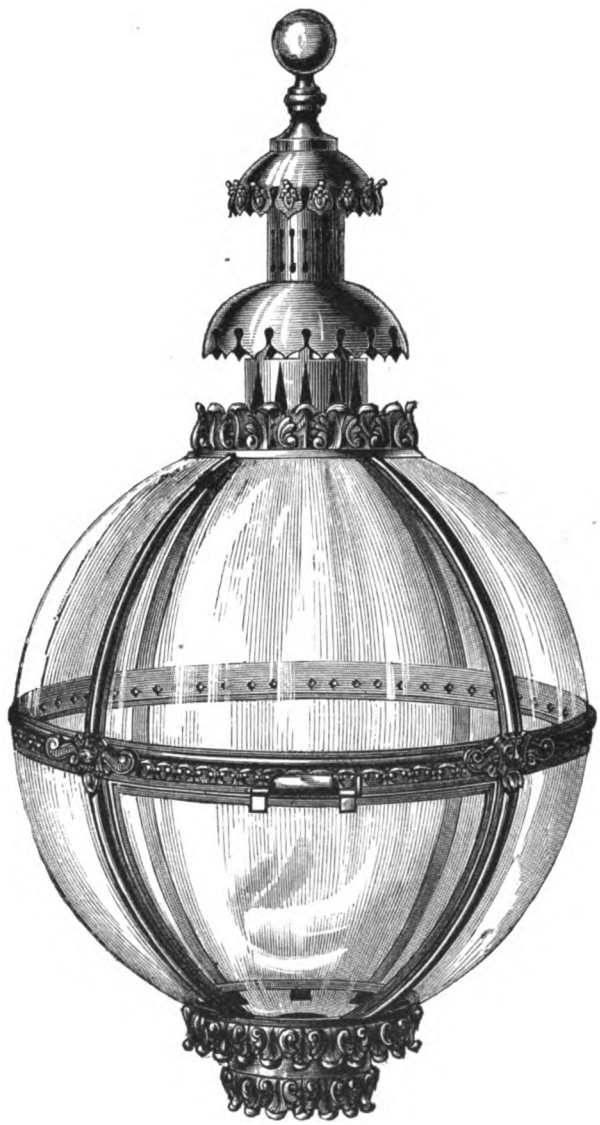
Fig. 561.



GLOBE LAMP,

EIGHT PANELS.

Fig. 562.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STREET AND FANCY LANTERNS.

STREET LAMP.

WITH NUMBERS, ETC.

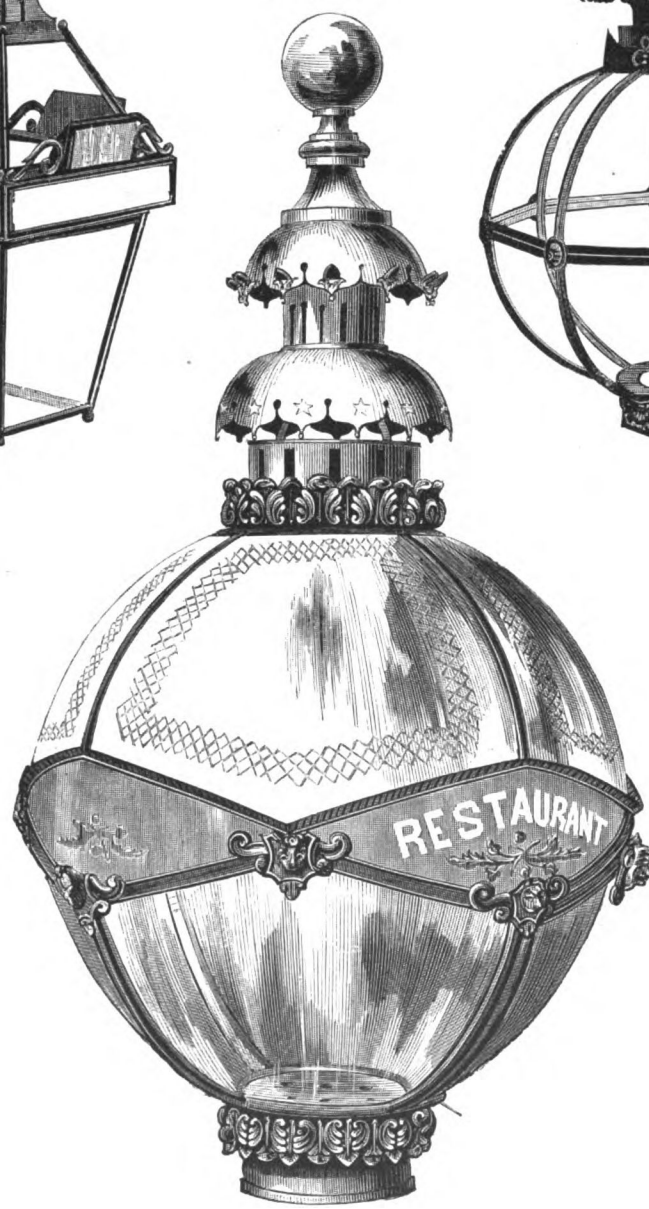
Fig. 563.

GLOBE LAMP.

Fig. 564.

RESTAURANT GLOBE LAMP.

Fig. 565.



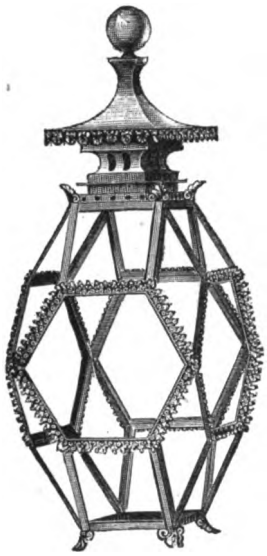
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STREET AND FANCY LANTERNS.

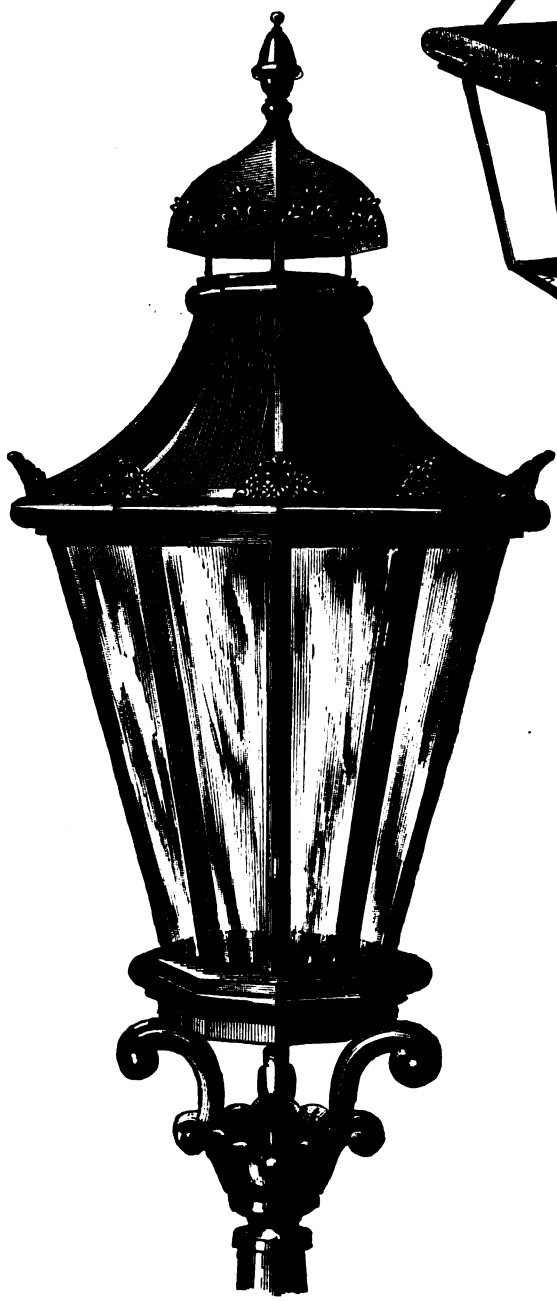
FANCY DIAMOND.

Fig. 566.



OPERA HOUSE LAMP.

Fig. 568.



GASOLINE.

Fig. 567.

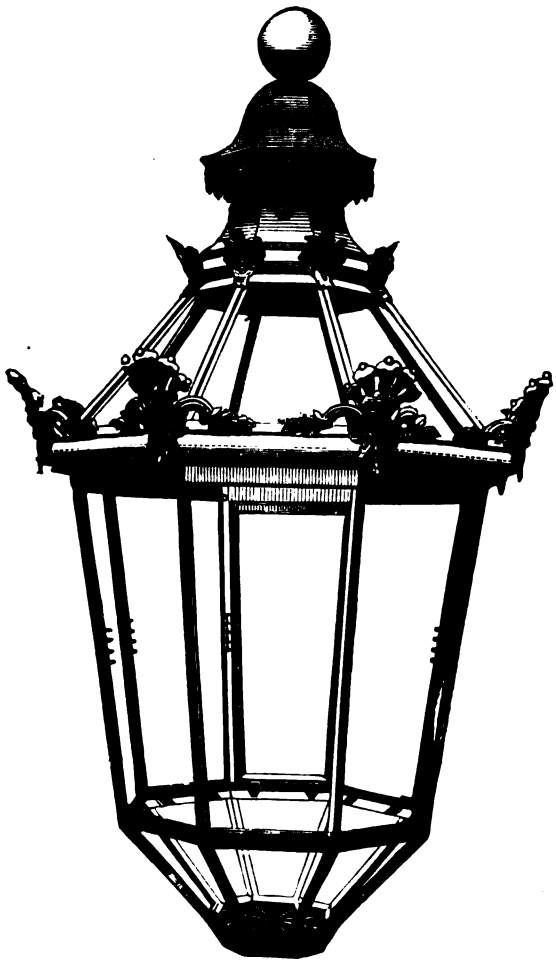
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

STREET AND FANCY LANTERNS.

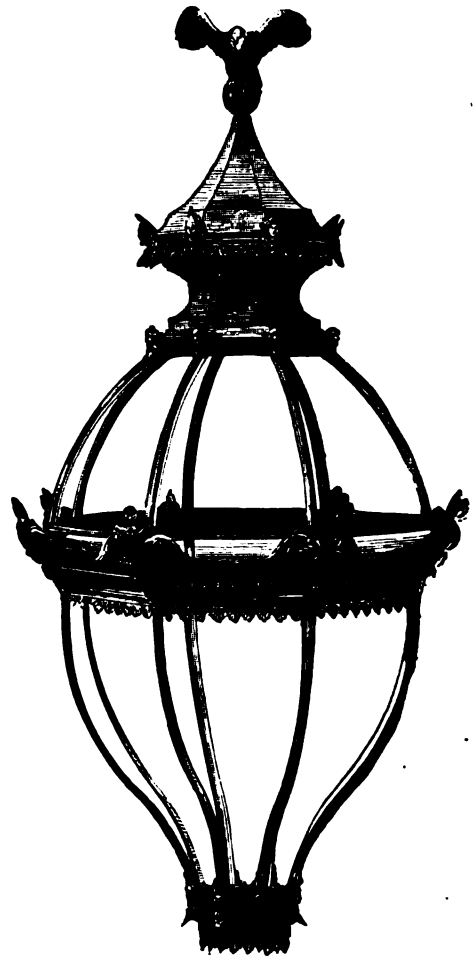
HEXAGON.

Fig. 569.



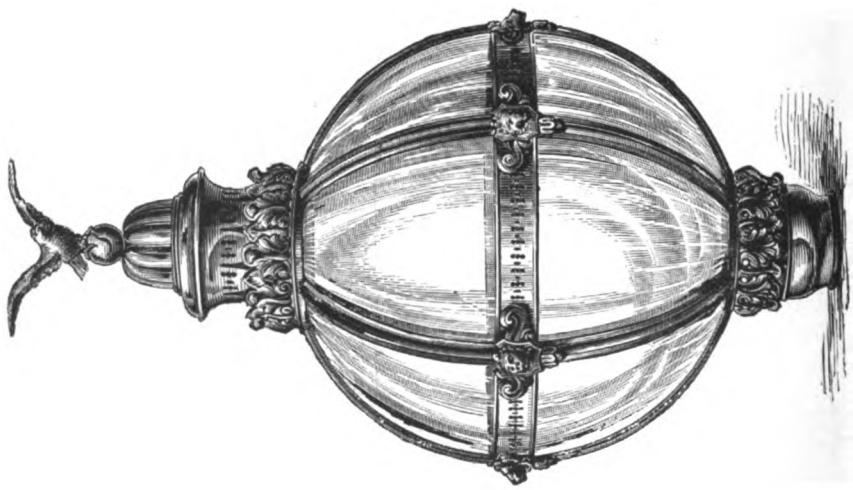
BALLOON.

Fig. 570.



GLOBE LAMP.

Fig. 571.



A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

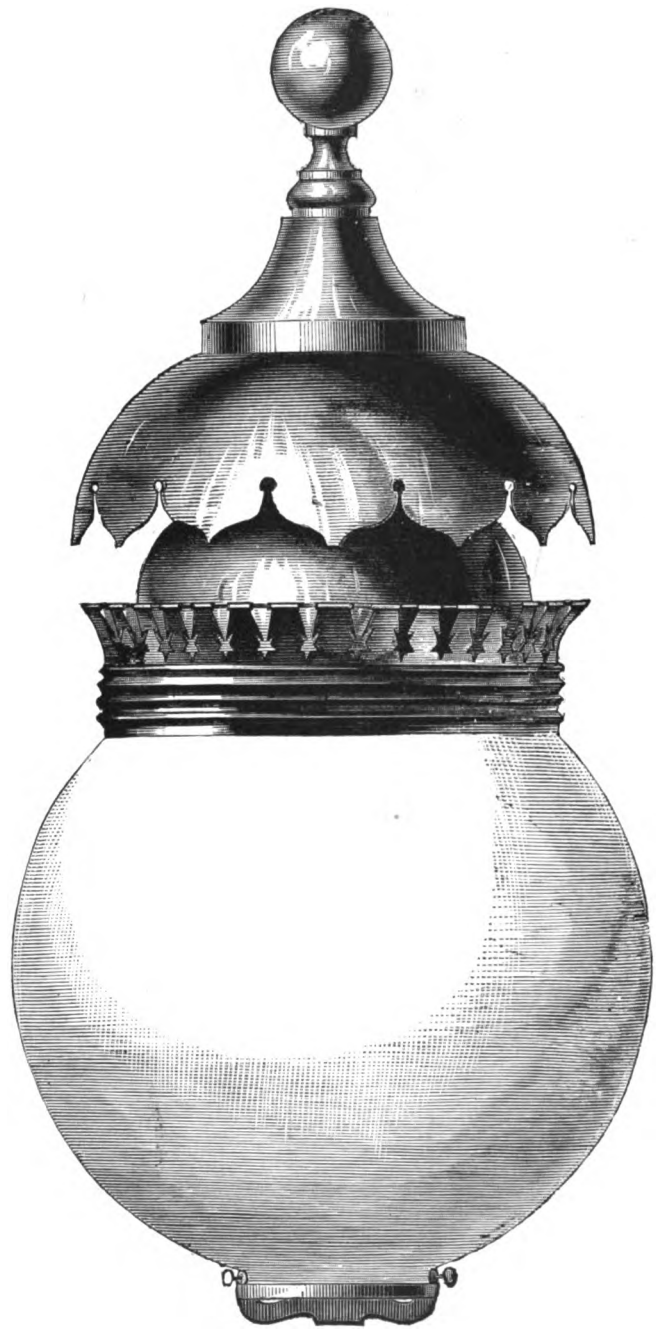
GROUND GLOBES.

WITH HOLDER AND FANCY CANOPY.
Fig. 572.

WITH HOLDER AND CANOPY.
Fig 573.

WITH HOLDER AND CANOPY.
Fig. 574.

WITH HOLDER AND SPUN BRASS CANOPY.
Fig. 575.



A. CAREY, MANUFACTURER, NEW YORK.

Digitized by Google

STREET AND FANCY LANTERNS.

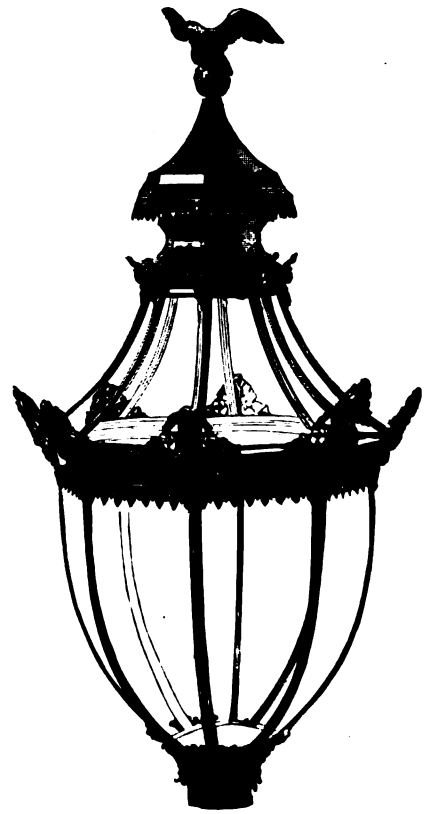
OCTAGON.

SMALL CORNERS, TAPER.

Fig. 576.

GRAND CENTRAL.

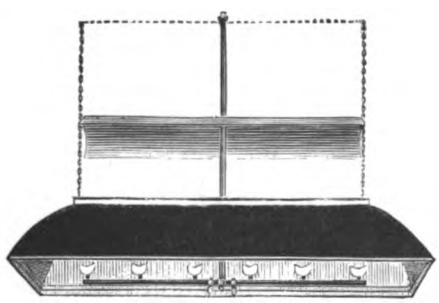
Fig. 577.



REFLECTORS.

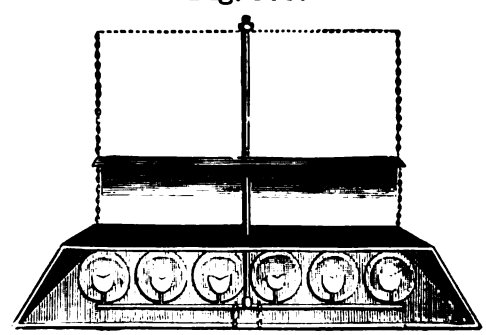
SQUARE END.

Fig. 578.



CONCAVE SIDE.

Fig. 579.



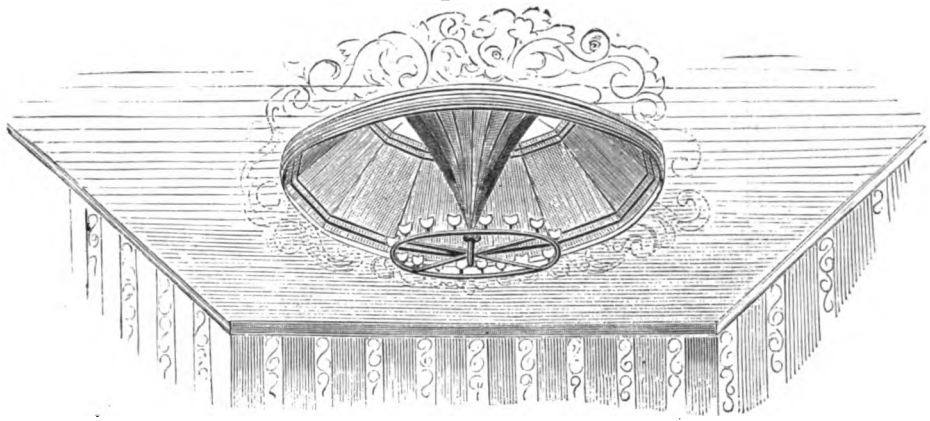
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

REFLECTORS

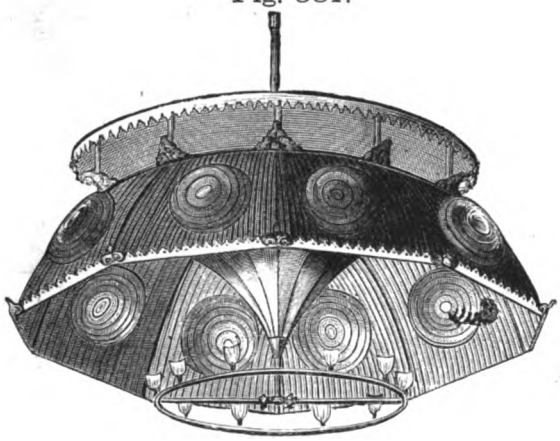
(INSERTED IN THE CEILING.)

Fig. 580.



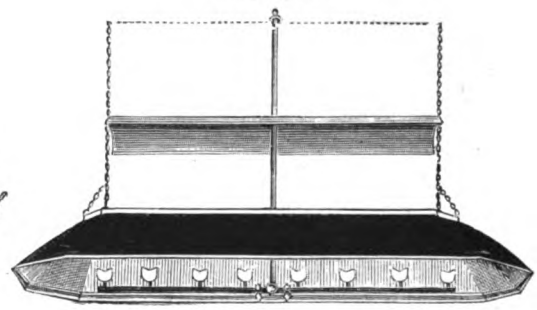
EXCELSIOR—WITH CONCAVES.

Fig. 581.



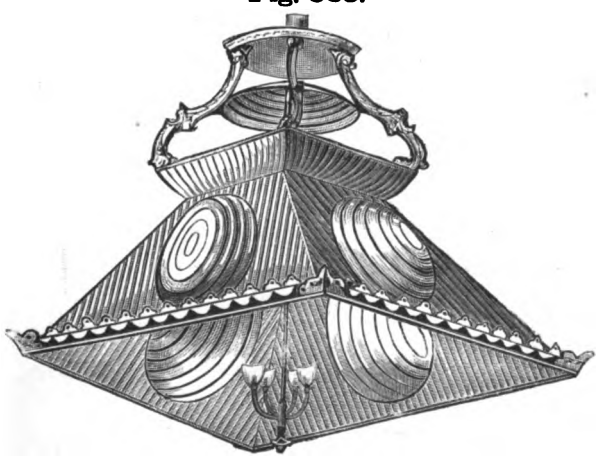
OCTAGON END.

Fig. 582.



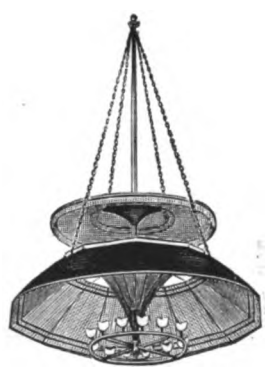
EXCELSIOR—WITH CONCAVES.

Fig. 583.



CEILING.

Fig. 584.

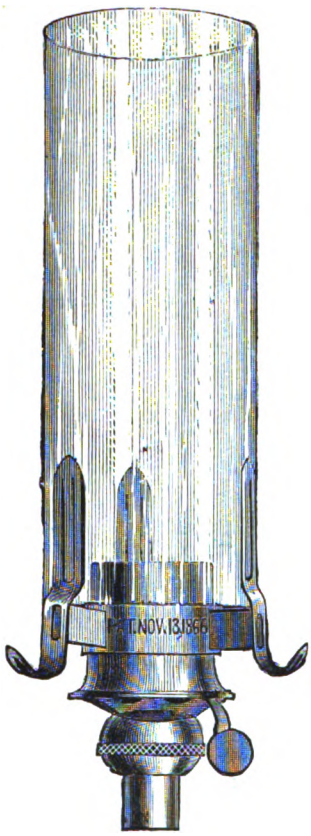


Digitized by Google

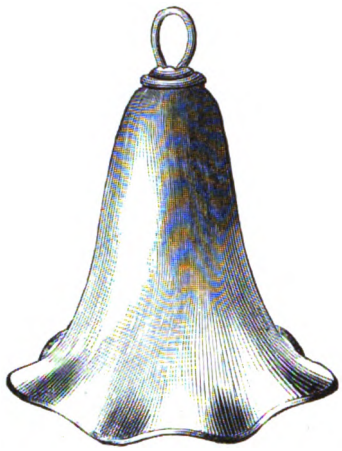
ARGAND BURNERS

(NOISELESS.)

WITH OPEN SPRING HOLDER.
Fig. 585.

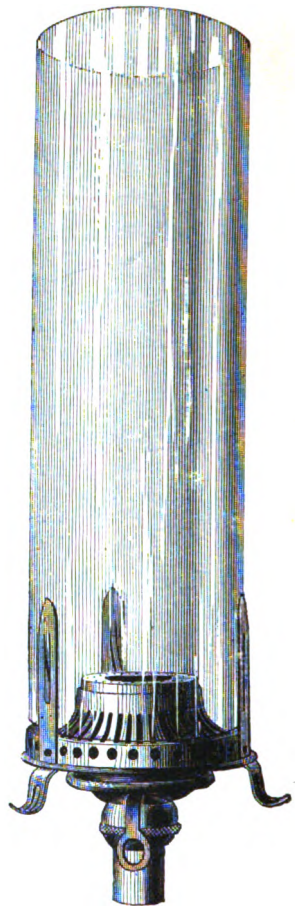


SMOKE BELL.
Fig. 587.

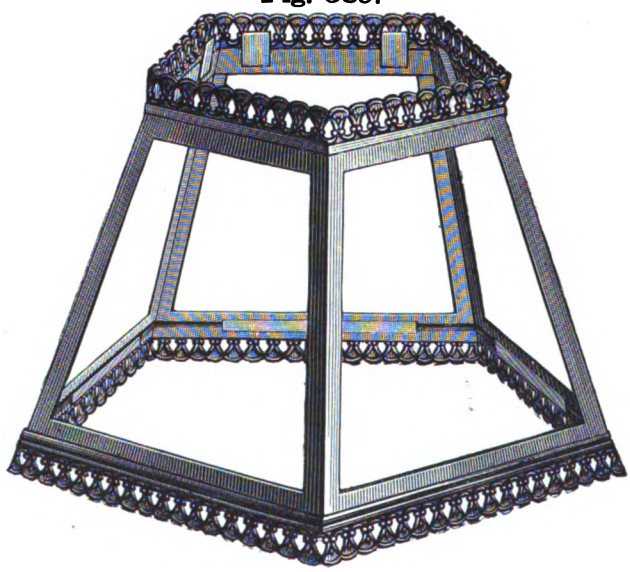


SMOKE SHADE.
Fig. 588.

WITH GRECIAN HOLDER.
Fig. 586.



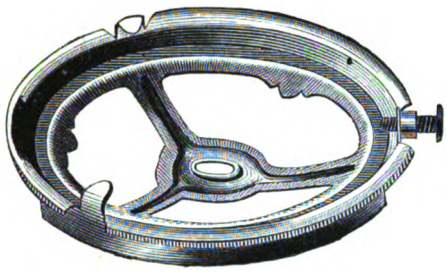
FRAME FOR PORCELAIN PLATES.
Fig. 589.



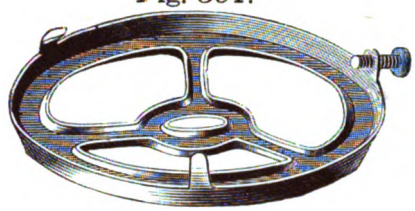
A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

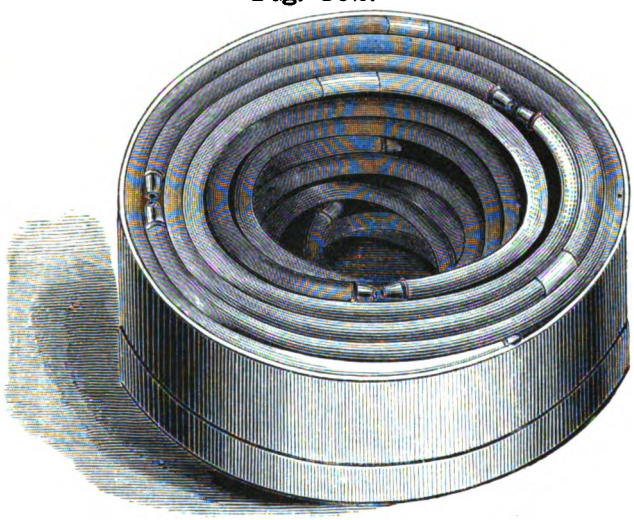
GLOBE HOLDER,
FANCY.
Fig. 590.



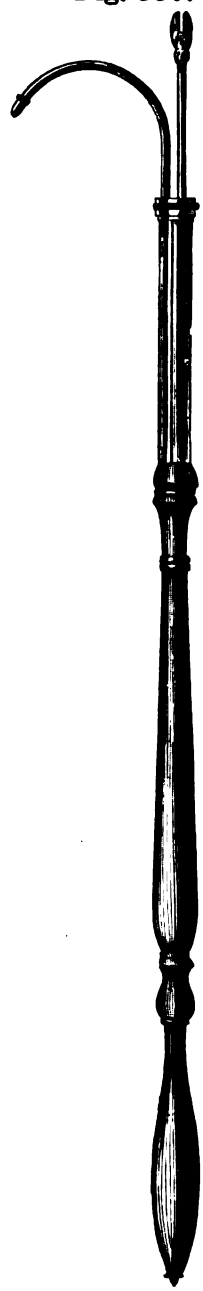
GLOBE HOLDER.
COMMON.
Fig. 591.



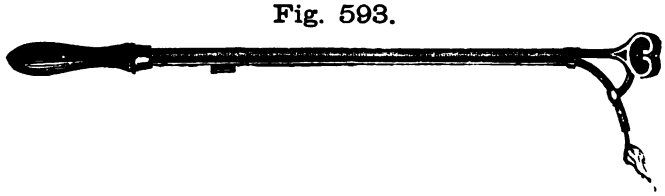
MOHAIR TUBE.
Fig. 592.



ALCOHOL TORCH.
Fig. 597.

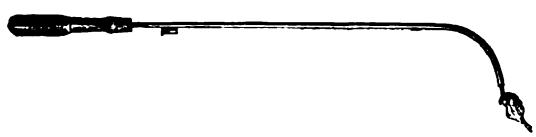


TAPER SLIDE AND KEY.
Fig. 593.

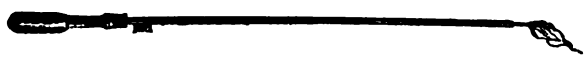


GAS KEY.
Fig. 594.

TAPER HOLDER, CURVED.
Fig. 595.



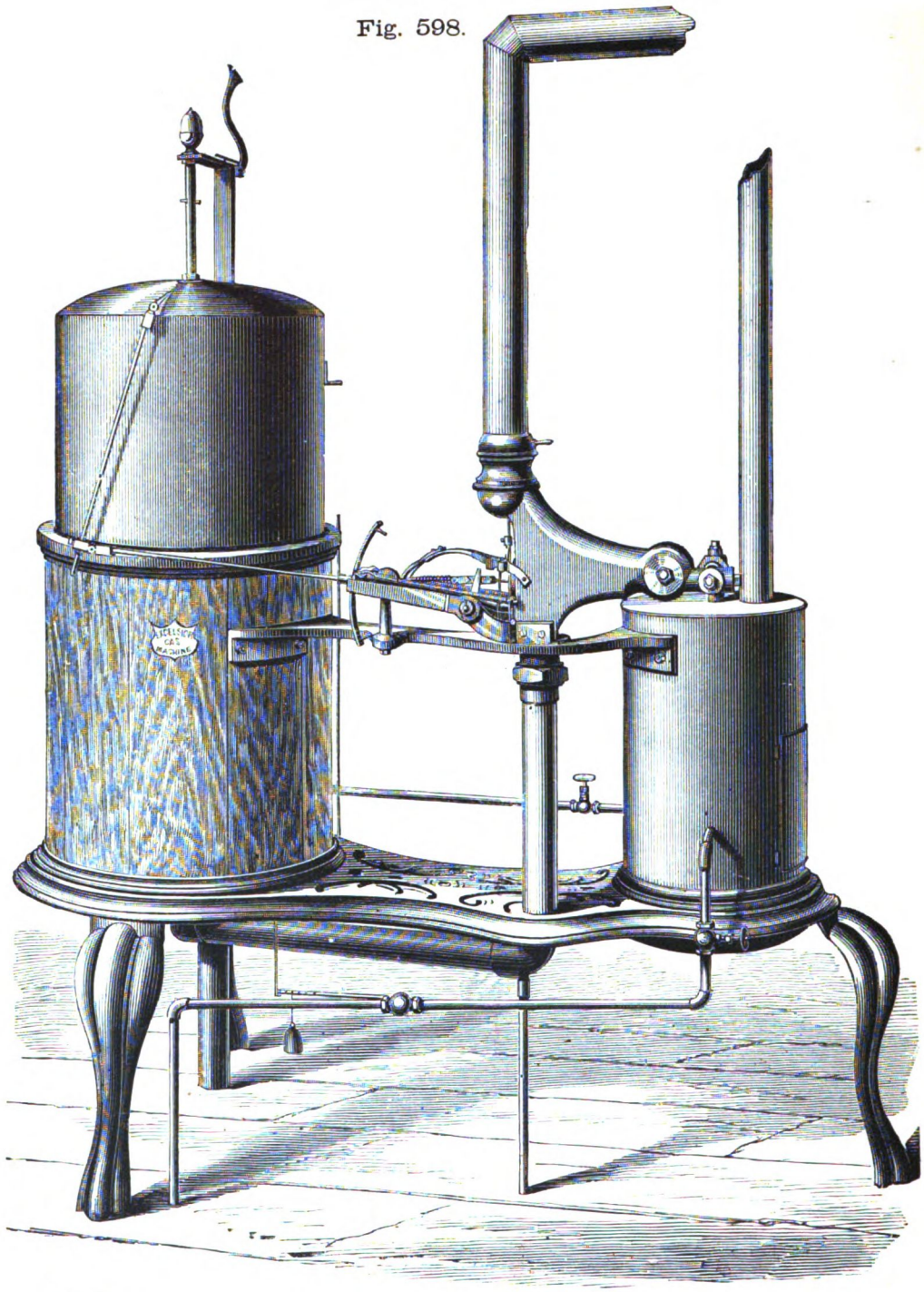
TAPER HOLDER, STRAIGHT.
Fig. 596.



Digitized by Google

EXCELSIOR GAS MACHINE.

Fig. 598.



Awarded Grand Medal of Progress, Vienna, 1873.

Automatic and simple in construction, designed for illuminating residences, hotels, factories, churches, villages and streets. *Warranted reliable and safe*, as no accidents have ever happened to any buildings lighted by this machine, and to furnish a *clear, soft and brilliant light*, free from smoke or odor; of uniform quality, *summer* or *winter*, with open or argand burners. *Every part* of the machine located in a small gas house, 30 to 50 feet from the buildings to be lighted; same size pipe required as for coal gas.

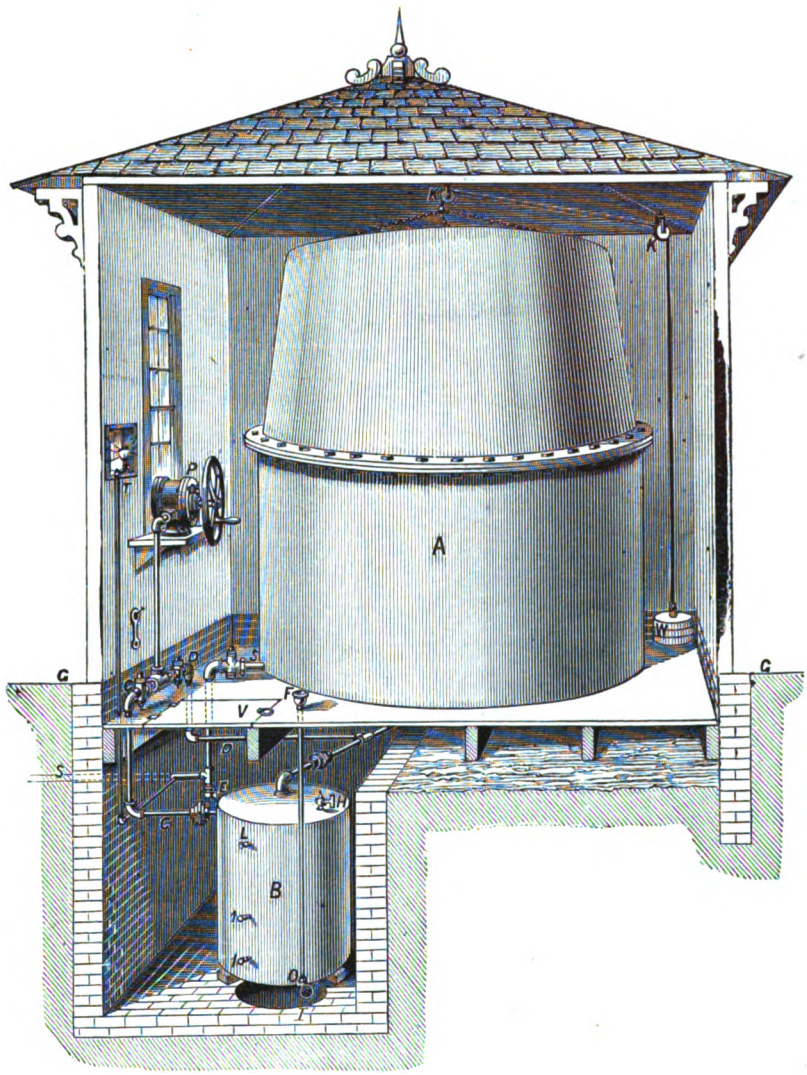
To all parties desiring to purchase, a sufficient time is allowed for trial, in order to satisfy themselves that the machine is exactly as represented before paying for it.

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

BAY STATE GAS WORKS.

Fig. 599.



PARTIES HAVING OLD FASHIONED GAS WORKS CAN HAVE THEM ALTERED TO THIS STYLE, AT A VERY SMALL OUTLAY.

This apparatus consists of: 1st. A ROTARY AIR PUMP OR BLOWER; 2d. A GASOLINE TANK, PROVIDED WITH A DEVICE FOR CARBONIZING AIR; 3d. A GAS-HOLDER.

The Blower is extremely simple in construction, very durable, can not possibly get out of order, only requires an occasional oiling to maintain it in perfect working condition, and is so easily operated that a boy of fifteen years can with ease make sufficient gas to fill a five hundred foot holder.

The gasoline tank is of sufficient size to hold three barrels of forty-five gallons each. It is provided with a carbonizing apparatus, which embraces in its construction all of the good points of that connected with the Empire State Gas Machine (still manufactured). Of these especially valuable is that of self-feeding from a fresh and unadulterated supply of gasoline, which is accomplished, here, without wheels, gears or any movable mechanism, whatever. Only a very small portion of gasoline can come in contact with the air at one time, and just so fast as this is absorbed by the air and carried off, more is admitted into the evaporating space, to supply its place. Thus the carbonizing chamber is kept constantly replenished with gasoline taken from the bottom of the gasoline tank, and the mass of gasoline remains untouched. Especial care is taken in the construction of these gasoline tanks to leave no chance for leakage. None but the best materials are used, and only first-class, careful workmen are employed to build them.

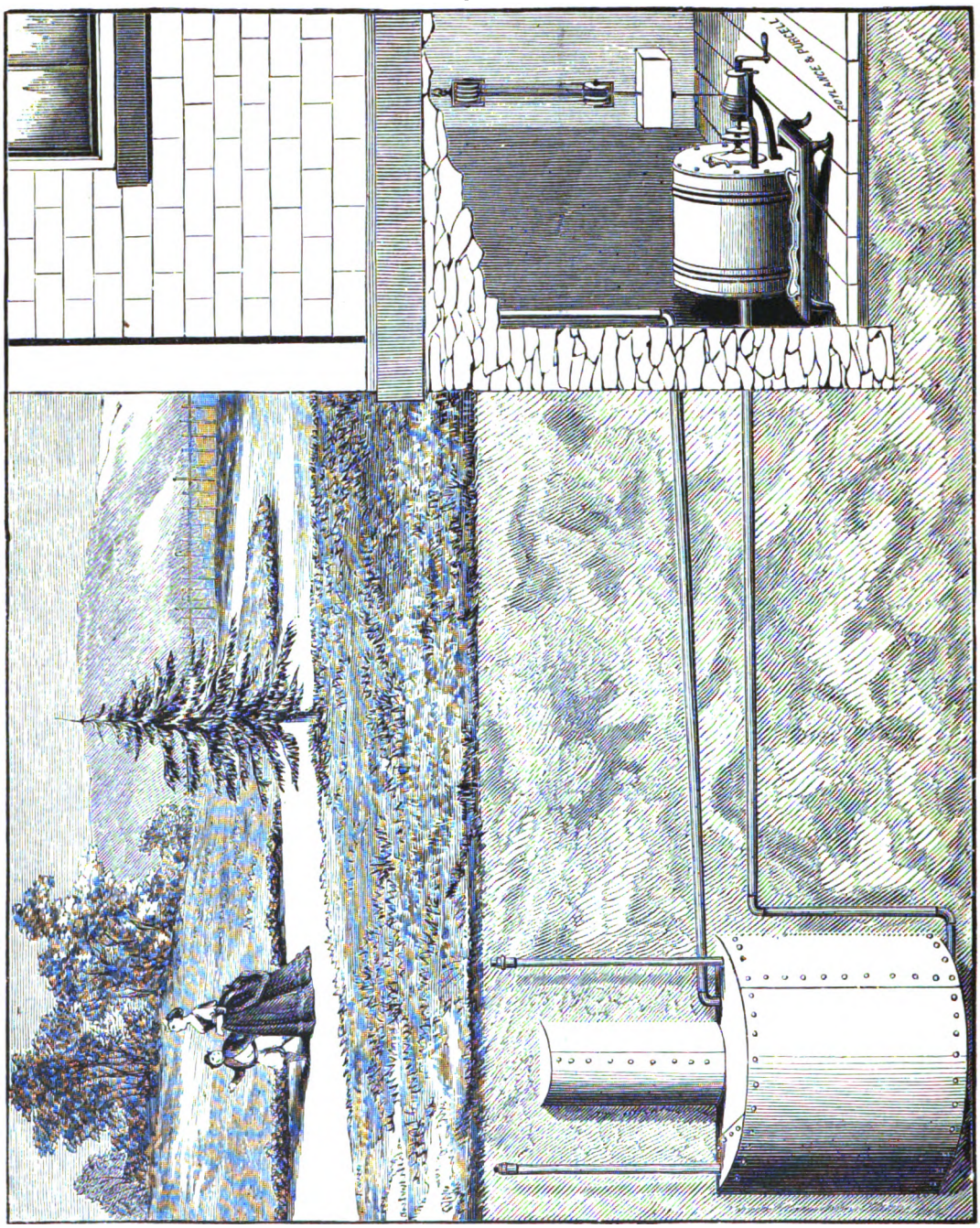
The gas-holder furnished by us is so constructed that no water or other liquid is necessary to its operation. This feature of the Bay State Gas Works is an important one, as it renders unnecessary, in the construction of gas-houses, those provisions against cold so essential to the good working of other gas machines. A mere shed will answer for this Works as well as the most carefully constructed gas-house, with double doors and walls filled in with sawdust. A shelter from rain is all that is absolutely necessary.

Digitized by Google

UNDERGROUND GAS MACHINE,

FOR ILLUMINATING DWELLINGS, CHURCHES, FACTORIES, &c.

Fig. 600.



(The Machine as buried entirely underground. The Pump located in the cellar.)

This Machine requires no gas-house or vault.
It generates gas without fire.
It is as absolutely buried up in the earth as the roots of a tree.
It is free from danger or care.
It is always as ready and reliable as coal gas.
The gas costs only $1.50 per thousand feet.
The material used is light naptha or gasoline.

THE GUARANTEE IS A SHORT AND COMPREHENSIVE ONE. IT IS WARRANTED TO GIVE PERFECT SATISFACTION TO THE PURCHASER, HE BEING THE SOLE JUDGE.

A. CARR, MANUFACTURER, NEW YORK.

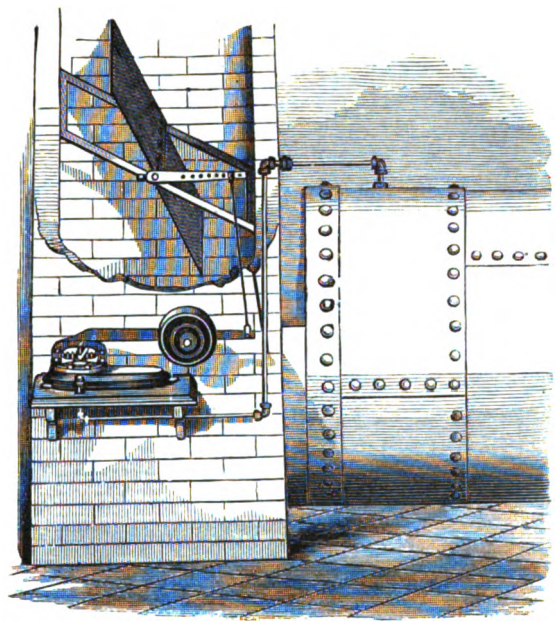
Digitized by Google

A. CARR, MANUFACTURER, NEW YORK.

AUTOMATIC DAMPER REGULATOR.

KNOWLES' PATENT.

Fig. 601.



These Dampers are adapted to high or low pressure boilers. They are sold under a full guarantee and, after one month's trial, if not satisfactory, it can be returned and no charge made.

FREEMAN'S PATENT STEEL BOILER FLUE SCRAPER.

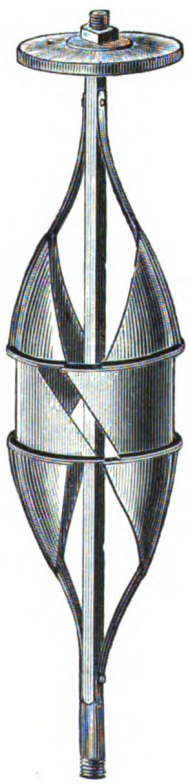


Fig. 603.

CRAIG & BREVOORT'S PATENT CONDENSER.

FOR STEAM PUMPS AND ENGINES.

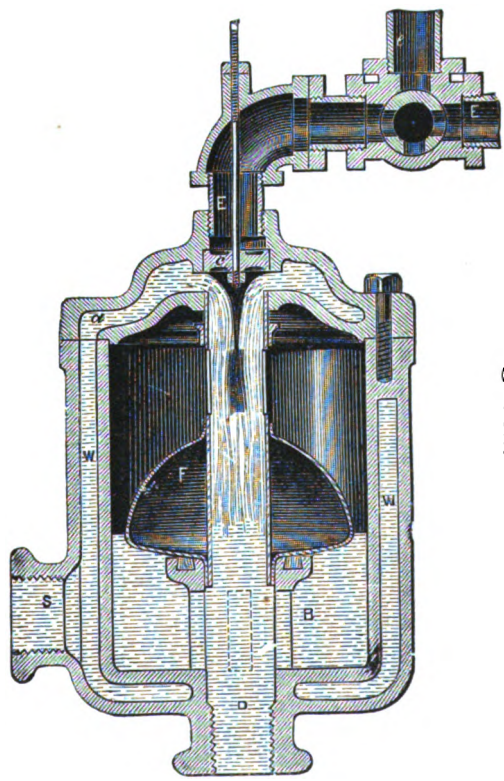


Fig. 602.

Digitized by Google

INDEX.

STEAM WORK, TOOLS, &c.

Air Cocks....53, 54
Alcohol Torch....185
Augurs....90
Bibbs, Steam....58, 59
Box Coils....85
Branch, Y Iron....77
Branch Tee....79
Brass Fittings....76
Burners, Gas....74
Bushing, Brass....76
Bushing, Iron....77
Cigar Lighter....73
Cocks, Air....53, 54
" Cylinder....56, 57
" for Steam Gauges....55
" Gas Fixture....72, 73
" Gas Meter....71
" Gas Service....71
" Gas, Union Meter....71
" Gas, Wrench....71
" Gauge....37 to 52
" Iron....70
" Steam....70
" Street Lamps....72
" Three Way....70
" Wrenches....71
Coil Heater....79
" Stands....86
Coils, Box....85
Condenser, Craig & Brevoort's....189
Coupling, Iron....78
" Reducing, Iron....78
" R. & L. Iron....78
Cross, Brass....76
" Iron....77
Damper Regulator....189
Die, Pipe....88
Differential Pulley Blocks....83
Drip Pump....155
Elbow, Brass....76
" Iron....77
Expansion Joints....75
" Plate....79
Fittings, Brass....76
" Iron....77, 78
Fixture Cocks....72, 73
Flange, Iron....78
" Union....78
Flue Brushes....93
Foot Valve and Strainer....80
Gas Burners....74
" Fixture Cocks....72, 73
" Key....185
" Machines....186, 187, 188
Gas Fitter's Torch....95
" " Proving Pump....95
" " " " 151
Gauge Cocks....37 to 52
" " Paynter's Patent....51
" " for Steam Gauges....55
Gauges, Steam....81, 82
" Water....61
Globe Holders....185
Governors....83
Heater Coils....86
Hook Plates....79
Injector, Gifford's....80
Iron Fittings....77, 78
Lock Nut, Iron....77
Lubricators, Dreyfus Patent....34, 35
" Nottingham Patent....35
" Broughton Patent....36
Meter Cock....71
Mohair Tube....185
Nipple, Brass....76
" Iron....78
Oil Cups, Broughton....36
" Globe....17 to 21
" Globe Valve....22
" Hollow Plug....23
" Lever Handle....26
" Locomotive, Nathan & Dreyfus....34, 35
" Nottingham....35
" Octagon....29, 30
" Plain....27, 28
" Steam Chest....31
" T Handle....24
" Transparent....36
" Valve....26
Oilers....94
Ornamental Screens....85
Pipe Cutter....90
" Cutting Machine....87
" Die....88
" Hook....79
" Tap....88
" Tongs....90
" Vises....89
Plug, Iron....77
Pliers....90
Proving Pumps....95, 151
Pulley Block, Differential....83
Pumps, Drip....155
" Steam....5, 6, 8, 10
" Oil....33
" Proving....151
" Testing....151
Radiators, Steam....13
" " Circular....84

A. CARR, MANUFACTURER, NEW YORK.

Digitized by Google

INDEX.

Ratchets..... 92
Reamer, Pipe..... 88
Return Bend, Iron..... 77
" " Open Pattern..... 78
Ring Plate..... 79
Service Cock..... 71
Screens, Ornamental..... 85
Screw Plates and Dies..... 91
Screw Wrenches..... 88
Scroll Die, Brass Pipe..... 89
Soldering Union..... 76
" Nipple..... 76
Steam Bibbs.....58, 59
" Cocks..... 70
" Gauges.....81, 82
" Gauge Cocks..... 55
" Traps..... 86
" Whistles.....14, 15, 16
Stocks & Dies.....87, 88
Stops, Steam..... 60
Street Lamp Cocks..... 72
Tallow Cups.....31, 32
Taps..... 90
Tap, Pipe..... 88
Tap Wrenches..... 90
Taper Holders..... 185
Taper Slide and Key..... 185
Tee, Brass..... 76
" Iron..... 77
Testing Pump..... 151
Tongs, Pipe..... 91
Torch, Gas Fitters..... 95
Traps, Steam..... 86
Tube Expanders..... 92
Tube Scraper..... 189
Union, Brass..... 76
" Iron..... 78
" Meter Cocks..... 71
Valves, Angle and Globe..... 62
" Angle Check..... 64
" Cross..... 63
" Flanged..... 63
" Horizontal Check..... 64
" Safety..... 64
" Vertical Check..... 65
" Iron, Angle..... 66
" " Globe..... 66
" " Globe (flanged)..... 67
" " Safety..... 68
" " " (flanged)..... 68
" Johnson..... 69
" Ludlow..... 69
" Peet..... 69
" Pump..... 65
Vises, Pipe..... 89
Water Gauges..... 61
Whistles, Steam.....14, 15, 16

PLUMBERS' BRASS WORK.

Ball Cock..... 109
Basin Clamps..... 133
" Cocks, Bracket..... 118
" " Compression..... 117
" " Ground.....113 to 116
" Grate..... 112
" Plugs..... 112
" Pulls..... 112
" Valves..... 128
Bath Valves..... 128
Bath Waste, with Stand Pipe..... 129
" " and Washer..... 129
" " " " For Iron Pipe..... 129
Beer Cocks.....121 to 125
Bibbs, Bath..... 99
" Plain..... 96
" " Compression..... 102
" " " For Iron Tub..... 103
" " Flange and Thimble..... 97
" " For Iron Pipe..... 98
" " Screw Tail..... 99
" Hose..... 96
" " Compression..... 102
" " " For Iron Pipe..... 103
" " Flange and Thimble..... 97
" " For Iron Pipe..... 98
" Wash Tray..... 100
" " " Compression..... 104
" " " Flange and Thimble..... 100
" " " New Style..... 105
Boiler Couplings..... 130
Butler Pantry Cocks..... 120
" " " Compression..... 120
Chain, Single and Double..... 133
Chain Stays..... 118
Corporation Cocks..... 111
" " For Cement Pipe..... 111
Counter Cocks..... 121
Couplings, Boiler..... 130
" Plain..... 132
" Water Back..... 130
Drip Pump..... 155
Hopper Cocks, Tee Handle..... 109
" " Long Stem..... 111
Hose Bibb Ends..... 132
" Couplings..... 127
" Nozzles..... 126
" Pipes..... 126
" Sprinklers..... 126
Hydrant Cocks..... 110
" " For Iron Pipe..... 110
" Nozzles..... 131
" " For Iron Pipe..... 131
" Stays and Handles..... 131
Lager Cocks.....121 to 125
Plain Couplings..... 132
Pumps, Baxter's..... 135
" Carr's Patent.....156, 157
" Drip..... 155
" Force.....153, 154, 155
" Force or Pressure..... 151

Digitized by Google

Pumps, Pitcher, Spout and Sand..... 152
Safety Valves, Copper Boiler..... 130
Shampooing Cock, Bracket..... 119
" " Upright..... 119
" Sprinklers..... 119
Ship Water Closet Cock 111
Sink Plug..... 129
Stops, Plain..... 101
" and Waste, or Shower Cocks..... 101
" Plain Compression..... 105
" Rough, L. H..... 106
" " and Waste, L. H..... 107
" " For Iron Pipe, L. H..... 108
" " " " T. H..... 109
" " Water..... 107
" Round Way, L. or T. H..... 108
" Shower and Waste..... 106
Strainers..... 132
Street Washer Screws..... 132
" " " For Iron Pipe..... 132
" " Check..... 132
Suction Basket..... 127
Trap Screw..... 129
Urinal, Swing..... 142
Valve Coupling..... 128
Vacuum Valve..... 129
" " With Coupling..... 129
Wash Tray Plug..... 129
Water Back Couplings..... 130
Water Closets..... .....139 to 142
" " Valves.....139 to 141

PLUMBERS' COPPER WARE.

Balls..... 137
Bath Tubs..... 136
Boilers..... 136
Showers..... 137
Sinks..... 137

PLUMBERS' IRON WARE.

Bath Tubs..... 165
Boiler Stands... 167
Boilers, Galvanized Iron..... 138
Furnaces, Plumber's..... 166
Hoppers..... ...143, 144
Lamp Posts..... 173
Pipe, Cast Iron..... 168
" Double Hub..... 168
" Fittings..... .....169 to 173
Plumbers' Furnaces..... 166
Sinks..... .....163, 164, 165
Slab and Bowl..... 161
Solder Moulds..... 166
Solder Pots..... 166
Stop Cock and Street Washer Boxes..... 167
Street Washer, Rod and Key..... 167
Traps..... .....172, 173
" Stubenbord's 173
Urinals..... 162
Wash Stands..... .....159, 160, 161
Wash Tubs..... 162
Water Closets..... .....139 to 142

PLUMBERS' EARTHENWARE.

Basins..... 147
Hoppers..... 148
Ship Closet Basins..... 148
Sinks..... 148
Slabs and Basins..... 146
Soap Cups and Brush Trays..... 146
Urinals..... .....149, 150

PLUMBERS' MATERIALS.

Lead Traps and Bends..... 138
Marble Slabs..... 145

GLASSWARE.

Argand Burners..... 184
Frame for Porcelain Shades..... 184
Smoke Bells..... 184
Smoke Shades..... 184

HYDRANTS & HOSE BOXES.

Hose Box..... 134
Hydrants.....134, 135

LAMPS AND LANTERNS.

Street and Fancy..... ....174 to 182

HYDRAULIC RAMS.

Hydraulic Rams..... 152

REFLECTORS.

Reflectors.....182, 183

A. CARE, MANUFACTURER, NEW YORK.

Digitized by Google

Digitized by Google

Digitized by Google

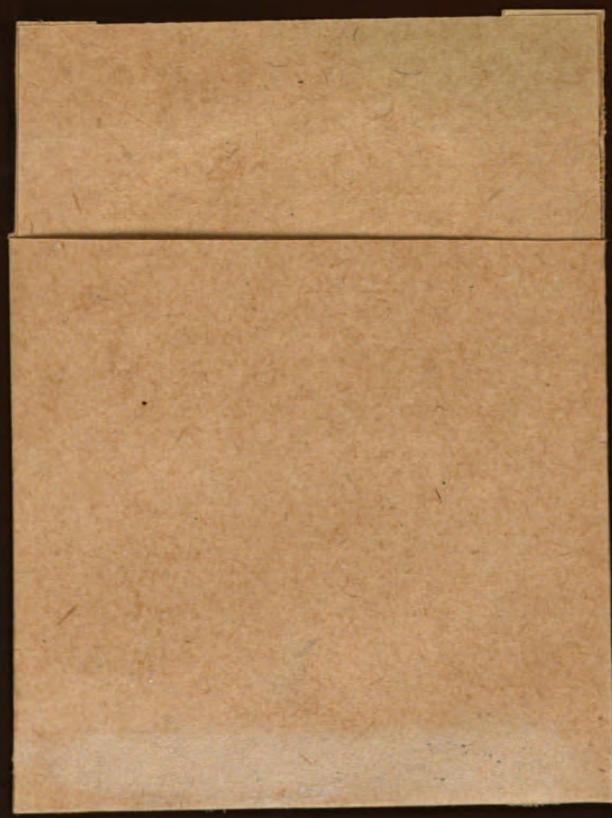
Digitized by Google

Digitized by Google

Digitized by Google

A000020066727

Digitized by Google


Digitized by Google

A000020066727
Digitized by Google